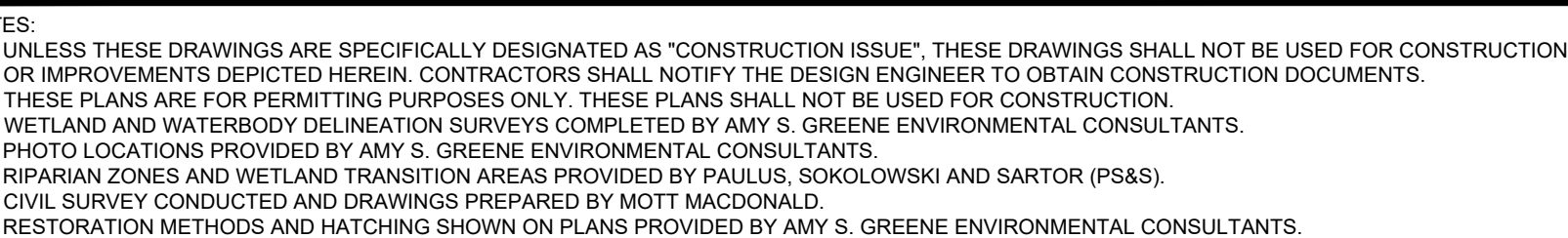
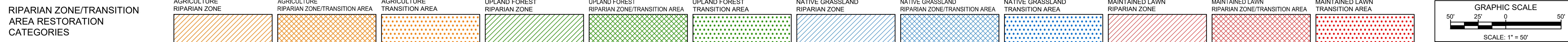



PENNEAST PIPELINE PROJECT		
<p align="center"><b>PENNEAST PIPELINE RESTORATION PERMIT PLAN MP 90.6R2 - MP 90.7R3</b></p>		
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-061	0





APPROVALS	
DRAWN BY	DATE
RJP	7/2019
CHECKED BY	DATE
KEK	7/2019
ENG. APPROVAL	DATE
MJD	7/2019
P.M. APPROVAL	DATE
MW	7/2019

	<p>PREPARED FOR</p> 
	<p>PREPARED BY</p> <p><b>M M</b></p> <p><b>MOTT MACDONALD</b></p> <p>111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830</p> <p>CERTIFICATE NO. 24GA28016600</p>

PENNEAST PIPELINE PROJECT		
<p><b>PENNEAST PIPELINE RESTORATION PERMIT PLAN</b></p> <p><b>MP 90.7R3 - MP 91.0R2</b></p>		
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-062	0

- NOTES FOR WETLAND RESTORATION:
- PEM WETLANDS IMPACTED WILL BE RESTORED AS PEM WETLANDS\*
- PSS WETLANDS WITHIN THE LIMITS OF DISTURBANCE AND OUTSIDE THE OPERATIONAL CORRIDOR WILL BE RESTORED AS PSS WETLANDS. PSS WETLANDS WITHIN THE OPERATIONAL CORRIDOR WILL BE RESTORED AS PEM WETLANDS.
- PFO WETLANDS WITHIN THE LIMITS OF DISTURBANCE AND OUTSIDE THE OPERATIONAL CORRIDOR WILL BE RESTORED AS PFO WETLANDS. PFO WETLANDS WITHIN THE OPERATIONAL CORRIDOR WILL BE RESTORED AS PEM WETLANDS.
- MODAG WETLANDS IMPACTED WILL BE RESTORED AS MODAG WETLANDS.

I AM A DULY REGISTERED PROFESSIONAL LAND SURVEYOR  
UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I  
HEREBY CERTIFY THAT EXISTING CONDITIONS SHOWN  
WERE FIELD LOCATED AND PREPARED UNDER MY DIRECT  
SUPERVISION.

**THOMAS D. STRONG**

**PROFESSIONAL LAND SURVEYOR**

N.J. LIC. NO. 24G5030676100



08/01/2019

I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I HEREBY CERTIFY THAT THE PROPOSED ENVIRONMENTAL DISTURBANCES SHOWN ARE ACCURATE AND CORRESPOND WITH THE DETAILED ENGINEERING DRAWINGS.

**MICHAEL J. DENICHILO**  
**PROFESSIONAL ENGINEER**

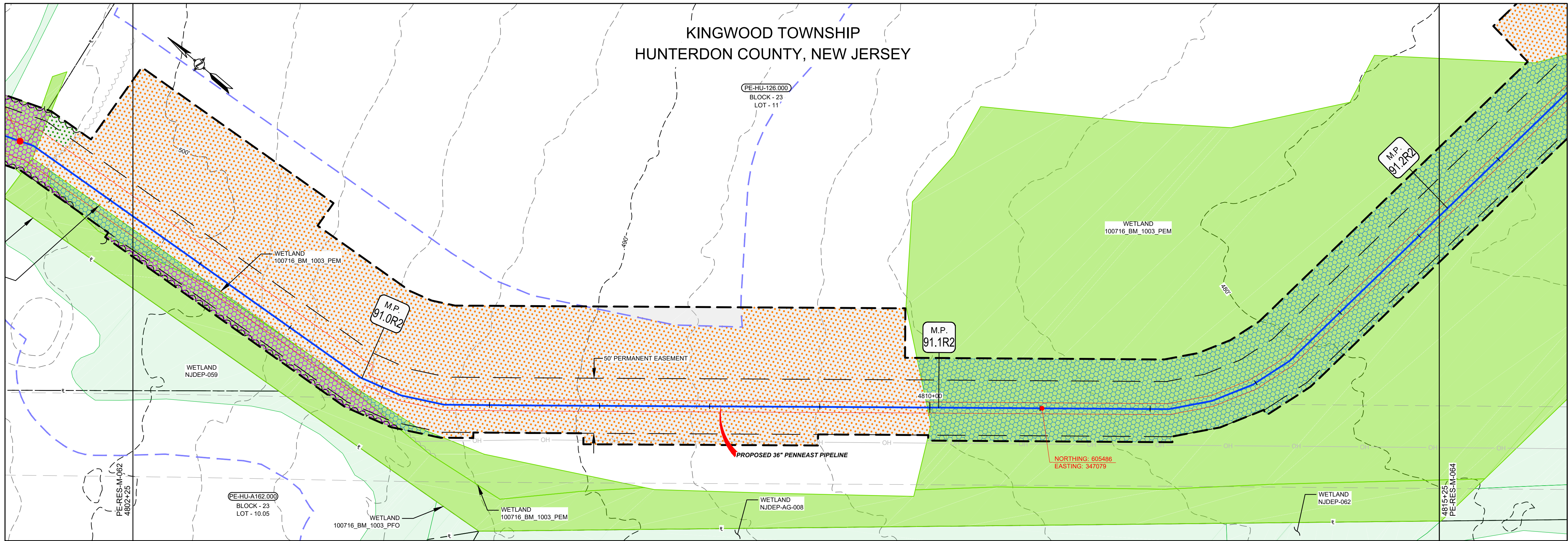
N.J. LIC. NO. 24GE0507800

*Michael Denichilo*

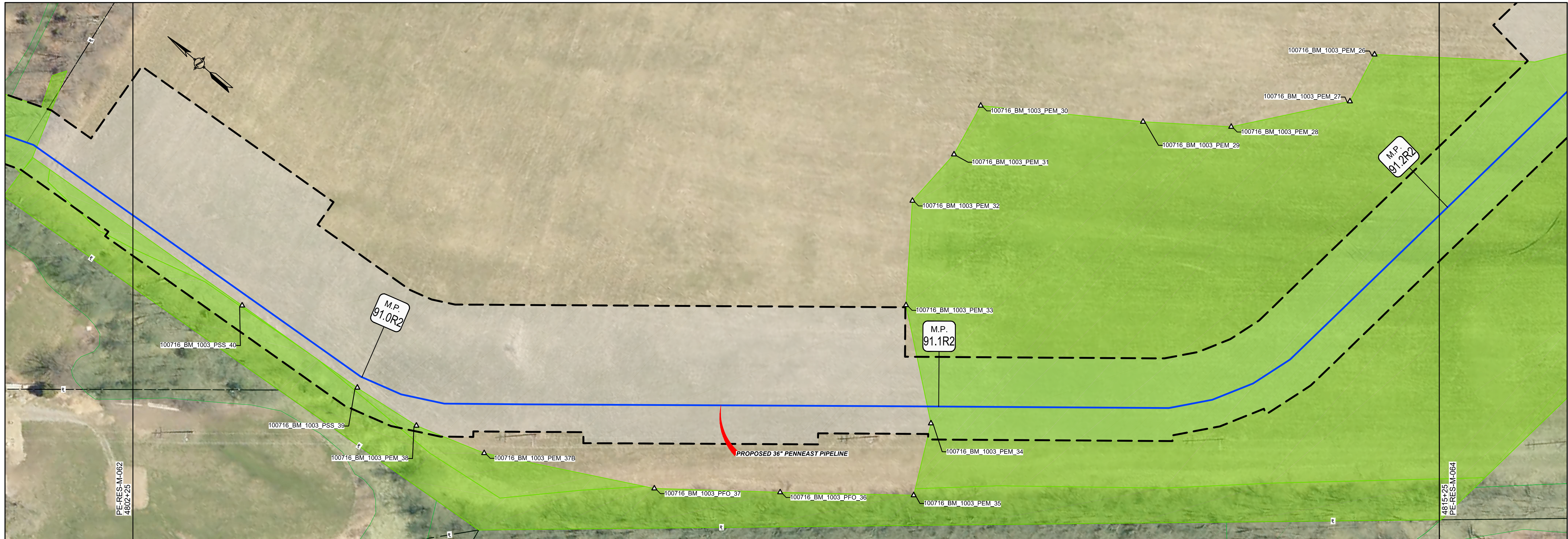
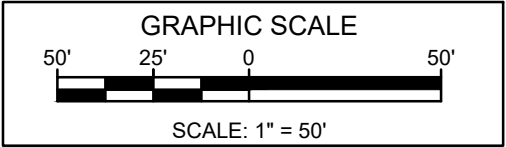
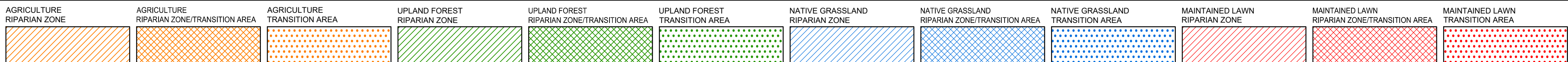
08/01/2019

SIGNATURE DATE





**RIPARIAN ZONE/TRANSITION AREA RESTORATION CATEGORIES**



- NOTES:
- UNLESS THESE DRAWINGS ARE SPECIFICALLY DESIGNATED AS "CONSTRUCTION ISSUE", THESE DRAWINGS SHALL NOT BE USED FOR CONSTRUCTION OR IMPROVEMENTS DEPICTED HEREIN. CONTRACTORS SHALL NOTIFY THE DESIGN ENGINEER TO OBTAIN CONSTRUCTION DOCUMENTS.
  - THESE PLANS ARE FOR PERMITTING PURPOSES ONLY. THESE PLANS SHALL NOT BE USED FOR CONSTRUCTION.
  - WETLAND AND WATERBODY DELINEATION SURVEYS COMPLETED BY AMY S. GREENE ENVIRONMENTAL CONSULTANTS.
  - PHOTO LOCATIONS PROVIDED BY AMY S. GREENE ENVIRONMENTAL CONSULTANTS.
  - RIPARIAN ZONES AND WETLAND TRANSITION AREAS PROVIDED BY PAULUS, SOKOLOWSKI AND SARTOR (PS&S).
  - CIVIL SURVEY CONDUCTED AND DRAWINGS PREPARED BY MOTT MACDONALD.
  - RESTORATION METHODS AND HATCHING SHOWN ON PLANS PROVIDED BY AMY S. GREENE ENVIRONMENTAL CONSULTANTS.

REFERENCE DRAWINGS		NO.		REVISIONS				APPROVALS			
DWG. NO.	TITLE	NO.		REVISIONS	DATE	DRAWN	CK	APPR	DRAWN BY	DATE	
		0		ISSUED FOR NJDEP PERMIT	7/2019	RJP	KEK	MJD	RJP	7/2019	
									KEK	7/2019	
									ENG. APPROVAL	DATE	
									MJD	7/2019	
									P.M. APPROVAL	DATE	
									MW	7/2019	

APPROVALS		CLIENT APPROVAL	
DRAWN BY	DATE		
RJP	7/2019		
CHECKED BY	DATE		
KEK	7/2019		
ENG. APPROVAL	DATE		
MJD	7/2019		
P.M. APPROVAL	DATE		
MW	7/2019		

PREPARED FOR  
**PennEast**  
PIPELINE

PREPARED BY  
**MOTT MACDONALD**  
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830  
CERTIFICATE NO. 24GA28016800

**LEGEND**

- PROPOSED PIPELINE
- LIMITS OF DISTURBANCE
- PROPOSED PERMANENT EASEMENT
- OPERATIONAL CORRIDOR
- PROPOSED TREE LINE (DURING CONSTRUCTION AND BEFORE RESTORATION)
- EXISTING TREE LINE
- WETLAND (SURVEYED)
- WETLAND (PUBLIC)
- PEM WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- PSS WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- PFO WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- MODAG WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- WATERBODY (SURVEYED)
- WATERBODY (PUBLIC)
- WATERBODY - TO BE RESTORED
- TRANSITION AREA
- RIPARIAN BUFFER (OUTER LIMITS ONLY)
- STREAM CENTERLINE (SURVEYED)
- STREAM CENTERLINE (PUBLIC)
- LIMITS OF WETLAND DELINEATION
- PROPERTY LINE
- PARCEL ID WITH BLOCK AND LOT NUMBER
- EXISTING CULVERT
- CORRUGATED PLASTIC PIPE
- CMP
- CORRUGATED METAL PIPE
- HDPE
- HIGH DENSITY POLYETHYLENE PIPE
- PVC
- POLYVINYL CHLORIDE PIPE
- RCP
- REINFORCED CONCRETE PIPE
- UNK
- UNKNOWN
- EXISTING FOREIGN UTILITY EASEMENT
- 1260'
- EXISTING MAJOR CONTOURS
- EXISTING MINOR CONTOURS
- EXISTING PIPELINE
- OH
- EXISTING OVERHEAD LINE
- EXISTING TREE
- EXISTING FENCE
- WETLAND FLAG NO.
- WETLAND FLAG
- SAMPLE STATION
- SAMPLE STATION
- SOW\_FLAG\_NO.
- STATE OPEN WATER FLAG
- PHOTO LOCATION (SEE REPORT)

**NOTES FOR WETLAND RESTORATION:**

PEM WETLANDS IMPACTED WILL BE RESTORED AS PEM WETLANDS\*

PSS WETLANDS WITHIN THE LIMITS OF DISTURBANCE AND OUTSIDE THE OPERATIONAL CORRIDOR WILL BE RESTORED AS PSS WETLANDS. PSS WETLANDS WITHIN THE OPERATIONAL CORRIDOR WILL BE RESTORED AS PEM WETLANDS.

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**THOMAS D. STRONG**  
PROFESSIONAL LAND SURVEYOR  
N.J. LIC. NO. 24GS03676100

*Thomas D. Strong* 08/01/2019  
SIGNATURE DATE

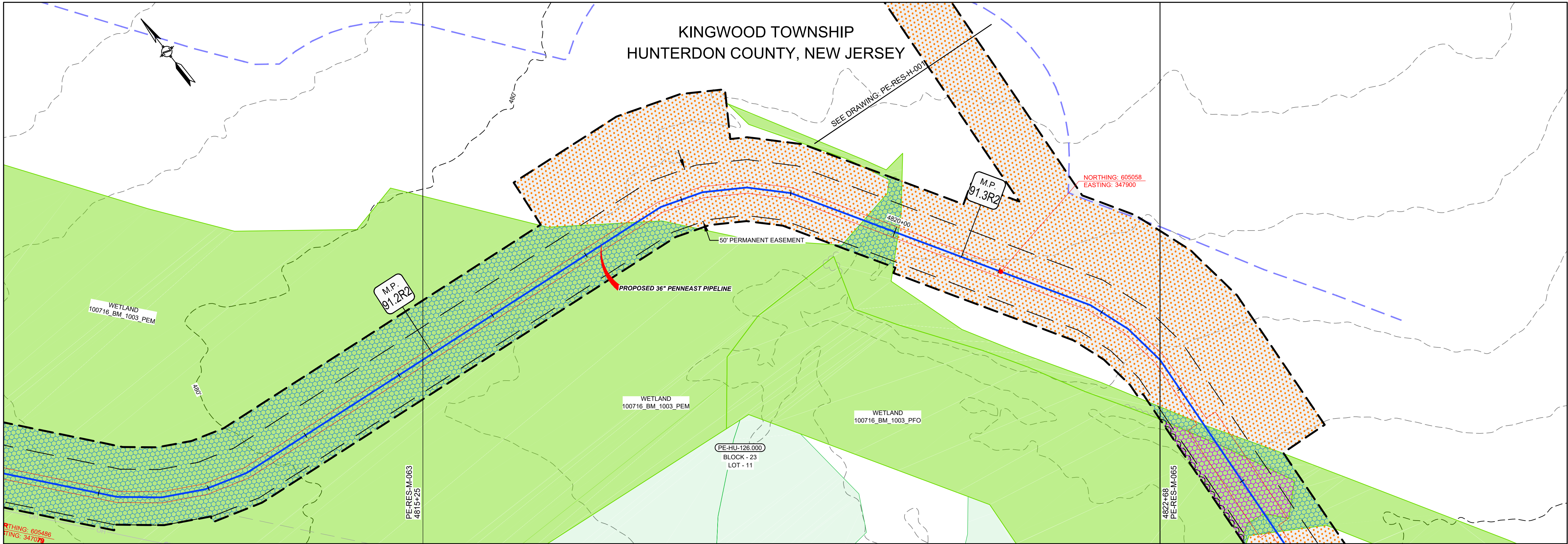
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**MICHAEL J. DENICHILO**  
PROFESSIONAL ENGINEER  
N.J. LIC. NO. 24GE05078700

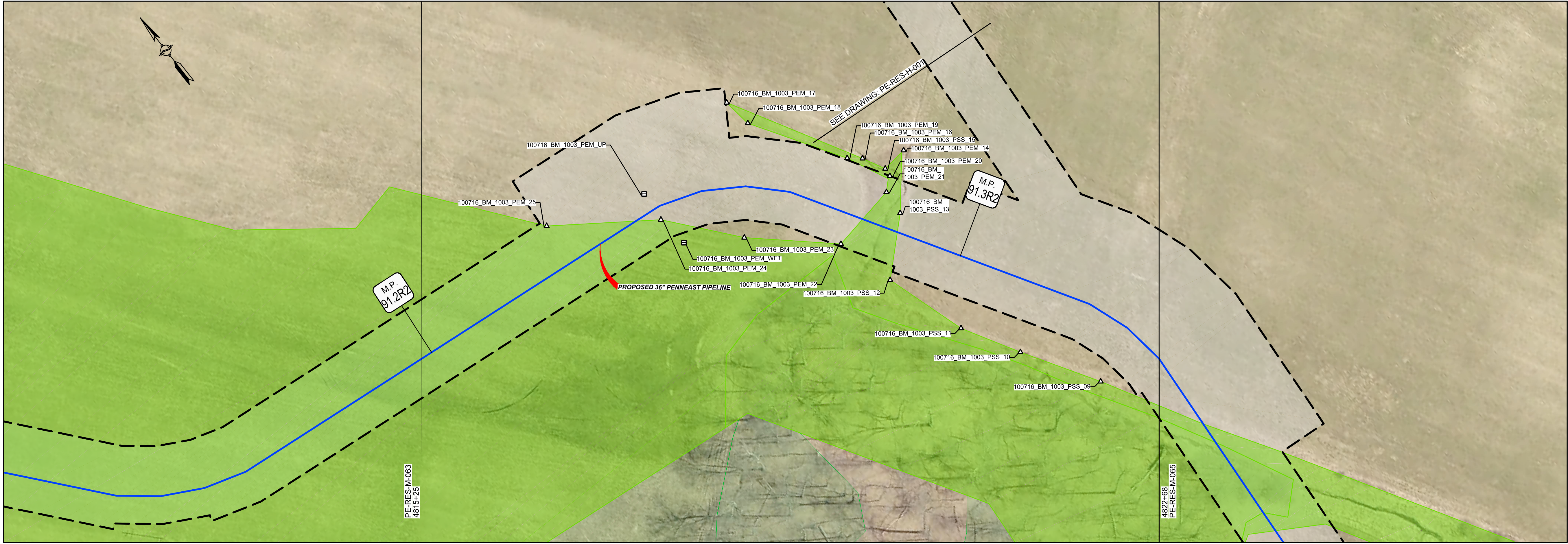
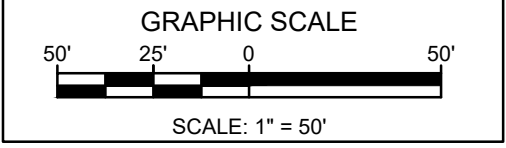
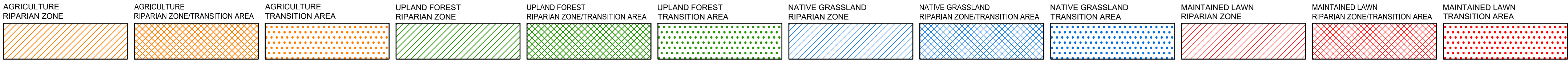
*Michael J. Denichilo* 08/01/2019  
SIGNATURE DATE

PENNEAST PIPELINE PROJECT		
<b>PENNEAST PIPELINE RESTORATION PERMIT PLAN</b>		
<b>MP 91.0R2 - MP 91.2R2</b>		
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-063	0





**RIPARIAN ZONE/TRANSITION AREA RESTORATION CATEGORIES**



- NOTES:
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REFERENCE DRAWINGS	
DWG. NO.	TITLE

REVISIONS	
NO.	REVISIONS
0	ISSUED FOR NJDEP PERMIT

APPROVALS	
DRAWN BY	DATE
RJP	7/2019
CHECKED BY	DATE
KEK	7/2019
ENG. APPROVAL	DATE
MJD	7/2019
P.M. APPROVAL	DATE
MW	7/2019

APPROVALS	
DRAWN BY	DATE
RJP	7/2019
CHECKED BY	DATE
KEK	7/2019
ENG. APPROVAL	DATE
MJD	7/2019
P.M. APPROVAL	DATE
MW	7/2019

PREPARED FOR	
PREPARED BY	
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830	
CERTIFICATE NO. 24GA28016800	

**LEGEND**

- PROPOSED PIPELINE
- LIMITS OF DISTURBANCE
- PROPOSED PERMANENT EASEMENT
- OPERATIONAL CORRIDOR
- PROPOSED TREE LINE (DURING CONSTRUCTION AND BEFORE RESTORATION)
- EXISTING TREE LINE
- WETLAND (SURVEYED)
- WETLAND (PUBLIC)
- PEM WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- PSS WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- PFO WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- MODAG WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- WATERBODY (SURVEYED)
- WATERBODY (PUBLIC)
- WATERBODY - TO BE RESTORED
- TRANSITION AREA
- RIPARIAN BUFFER (OUTER LIMITS ONLY)
- STREAM CENTERLINE (SURVEYED)
- STREAM CENTERLINE (PUBLIC)
- LIMITS OF WETLAND DELINEATION
- PROPERTY LINE
- PARCEL ID WITH BLOCK - 1 LOT - 10.00
- EXISTING CULVERT
- CORRUGATED PLASTIC PIPE
- CMP
- CORRUGATED METAL PIPE
- HDPE
- HIGH DENSITY POLYETHYLENE PIPE
- PVC
- POLYVINYL CHLORIDE PIPE
- RCP
- REINFORCED CONCRETE PIPE
- UNK
- UNKNOWN
- EXISTING FOREIGN UTILITY EASEMENT
- 1200'
- EXISTING MAJOR CONTOURS
- EXISTING MINOR CONTOURS
- EXISTING PIPELINE
- OH
- EXISTING OVERHEAD LINE
- EXISTING TREE
- EXISTING FENCE
- WETLAND FLAG NO.
- WETLAND FLAG
- SAMPLE STATION
- SAMPLE STATION
- SOW\_FLAG\_NO.
- STATE OPEN WATER FLAG
- PHOTO LOCATION (SEE REPORT)

**NOTES FOR WETLAND RESTORATION:**

PEM WETLANDS IMPACTED WILL BE RESTORED AS PEM WETLANDS\*

PSS WETLANDS WITHIN THE LIMITS OF DISTURBANCE AND OUTSIDE THE OPERATIONAL CORRIDOR WILL BE RESTORED AS PSS WETLANDS. PSS WETLANDS WITHIN THE OPERATIONAL CORRIDOR WILL BE RESTORED AS PEM WETLANDS.

PFO WETLANDS WITHIN THE LIMITS OF DISTURBANCE AND OUTSIDE THE OPERATIONAL CORRIDOR WILL BE RESTORED AS PFO WETLANDS. PFO WETLANDS WITHIN THE OPERATIONAL CORRIDOR WILL BE RESTORED AS PEM WETLANDS.

MODAG WETLANDS IMPACTED WILL BE RESTORED AS MODAG WETLANDS.

I AM A DULY REGISTERED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I HEREBY CERTIFY THAT EXISTING CONDITIONS SHOWN WERE FIELD LOCATED AND PREPARED UNDER MY DIRECT SUPERVISION.

**THOMAS D. STRONG**  
PROFESSIONAL LAND SURVEYOR  
N.J. LIC. NO. 24GS03676100

SIGNATURE DATE 08/01/2019

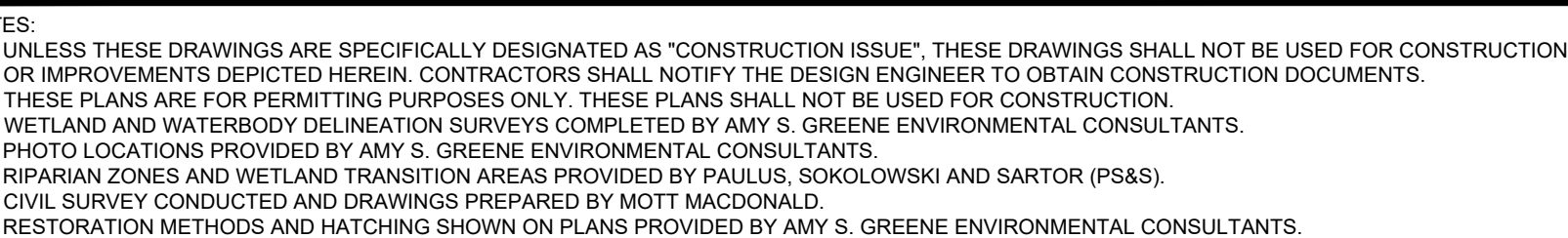
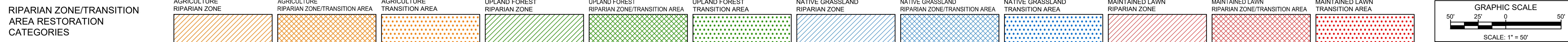
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**MICHAEL J. DENICHILO**  
PROFESSIONAL ENGINEER  
N.J. LIC. NO. 24GE05078700

SIGNATURE DATE 08/01/2019

PENNEAST PIPELINE PROJECT		
<b>PENNEAST PIPELINE RESTORATION PERMIT PLAN</b>		
<b>MP 91.2R2 - MP 91.3R2</b>		
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-064	0





PREPARED FOR	
	
PREPARED BY	
<b>M M</b>	
<b>MOTT MACDONALD</b>	
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830	
CERTIFICATE NO. 24GA28016600	

## LEGEND

	PROPOSED PIPELINE
	LIMITS OF DISTURBANCE
	PROPOSED PERMANENT EASEMENT
	OPERATIONAL CORRIDOR
	PROPOSED TREE LINE (DURING CONSTRUCTION AND BEFORE RESTORATION)
	EXISTING TREE LINE
	WETLAND (SURVEYED)
	WETLAND (PUBLIC)
	PEM WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
	PSS WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
	PFO WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
	MDMG WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
	WATERBODY (SURVEYED)
	WATERBODY (PUBLIC)
	WATERBODY - TO BE RESTORED
	TRANSITION AREA
	RIPARIAN BUFFER (OUTER LIMITS ONLY)
	STREAM CENTERLINE (SURVEYED)
	STREAM CENTERLINE (PUBLIC)
	LIMITS OF WETLAND DELINEATION
	PROPERTY LINE
	PARCEL ID WITH BLOCK AND LOT NUMBER
	EXISTING CULVERT
	CPP CORRUGATED PLASTIC PIPE
	CMP CORRUGATED METAL PIPE
	HDPE HIGH DENSITY POLYETHYLENE PIPE
	PVC POLYVINYL CHLORIDE PIPE
	RCP REINFORCED CONCRETE PIPE
	UNK UNKNOWN
	EXISTING FOREIGN UTILITY EASEMENT
	EXISTING MAJOR CONTOURS
	EXISTING MINOR CONTOURS
	EXISTING PIPELINE
	EXISTING OVERHEAD LINE
	EXISTING TREE
	EXISTING FENCE
	WETLAND FLAG
	SAMPLE STATION
	STATE OPEN WATER FLAG
	PHOTO LOCATION (SEE REPORT)

**NOTES FOR WETLAND RESTORATION:**

**PEM WETLANDS IMPACTED WILL BE RESTORED AS PEM WETLANDS\***

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**MODAG WETLANDS IMPACTED WILL BE RESTORED AS MODAG WETLANDS.**

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**THOMAS D. STRONG**

**PROFESSIONAL LAND SURVEYOR**

N.J. LIC. NO. 24G503676100



**08/01/2019**

SIGNATURE DATE

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**PROFESSIONAL ENGINEER**

N.J. LIC. NO. 24GE0507800

*Michael J. Denichilo*

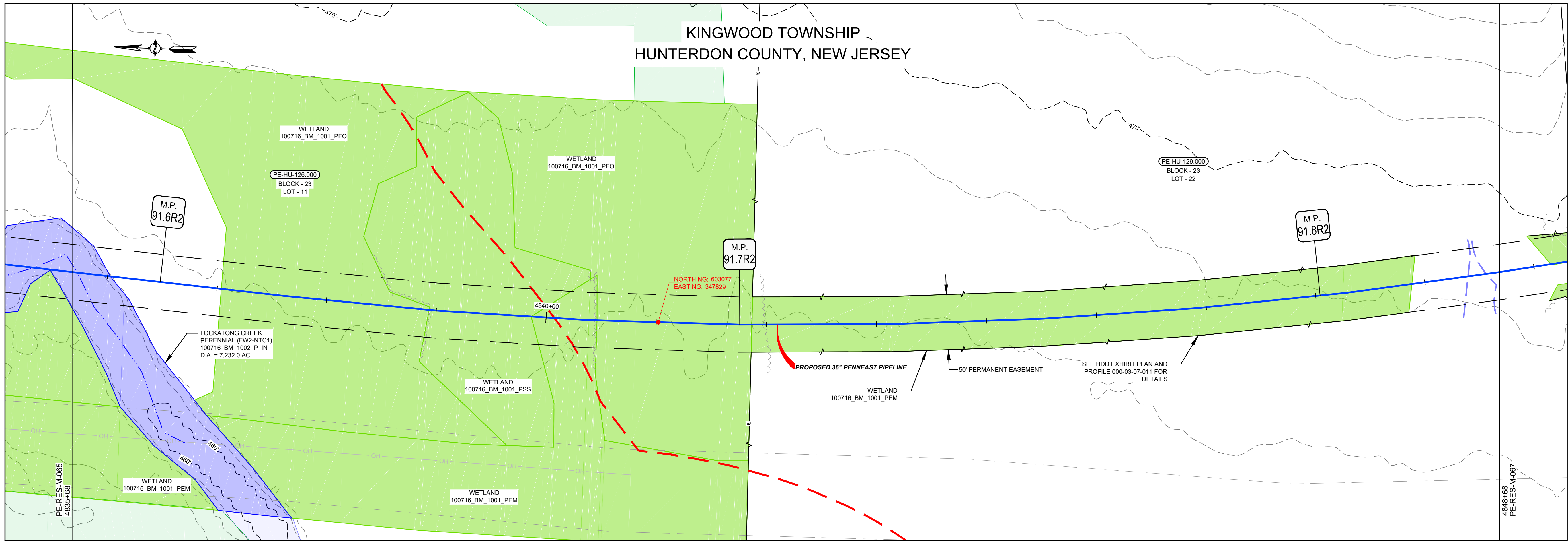
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08/01/2019

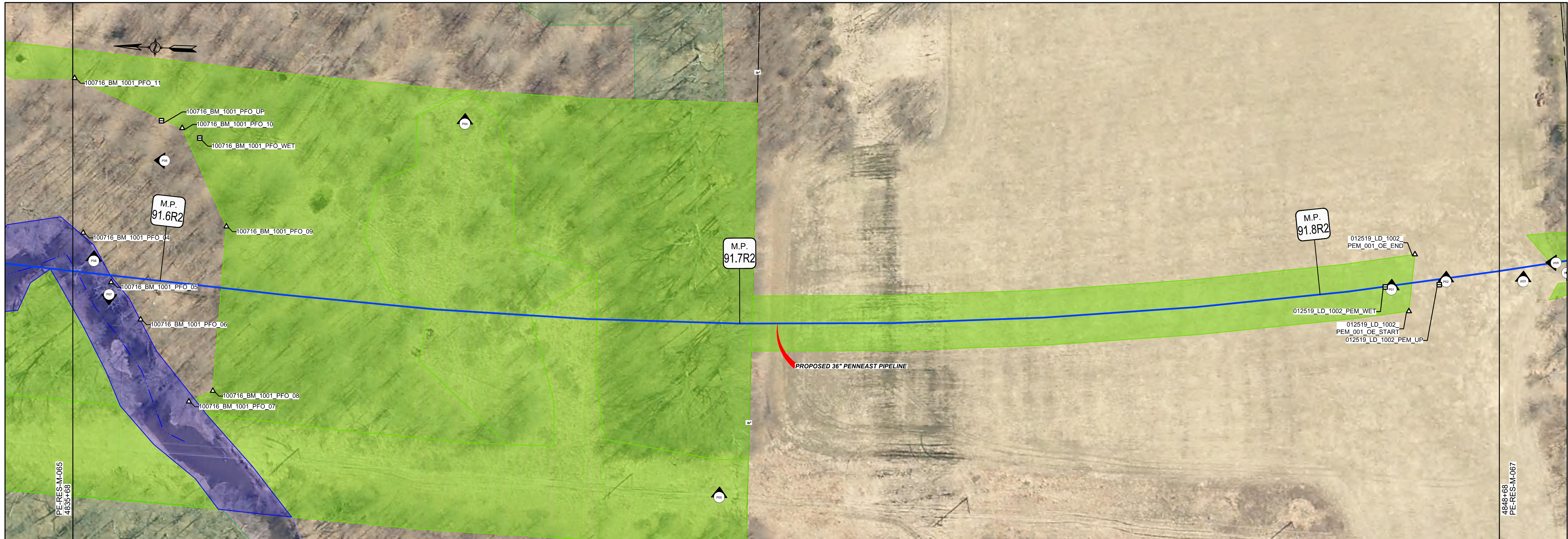
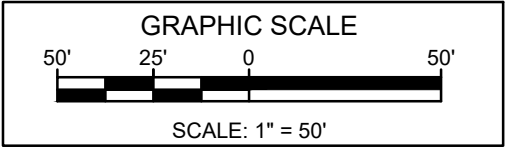
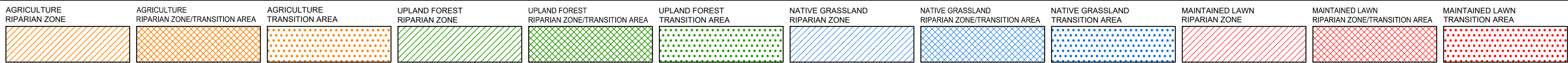
DATE

PENNEAST PIPELINE PROJECT		
<p align="center"><b>PENNEAST PIPELINE RESTORATION PERMIT PLAN MP 91.3R2 - MP 91.6R2</b></p>		
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-065	0





**RIPARIAN ZONE/TRANSITION AREA RESTORATION CATEGORIES**



LEGEND	
	PROPOSED PIPELINE
	LIMITS OF DISTURBANCE
	PROPOSED PERMANENT EASEMENT
	OPERATIONAL CORRIDOR
	PROPOSED TREE LINE (DURING CONSTRUCTION AND BEFORE RESTORATION)
	EXISTING TREE LINE
	WETLAND (SURVEYED)
	WETLAND (PUBLIC)
	PEM WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
	PSS WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
	PFO WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
	MODAG WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
	WATERBODY (SURVEYED)
	WATERBODY (PUBLIC)
	WATERBODY - TO BE RESTORED
	TRANSITION AREA
	RIPARIAN BUFFER (OUTER LIMITS ONLY)
	STREAM CENTERLINE (SURVEYED)
	STREAM CENTERLINE (PUBLIC)
	LIMITS OF WETLAND DELINEATION
	PROPERTY LINE
	PARCEL ID WITH BLOCK AND LOT NUMBER
	EXISTING CULVERT
	CORRUGATED PLASTIC PIPE
	CORRUGATED METAL PIPE
	HIGH DENSITY POLYETHYLENE PIPE
	POLYVINYL CHLORIDE PIPE
	REINFORCED CONCRETE PIPE
	UNKNOWN
	EXISTING FOREIGN UTILITY EASEMENT
	EXISTING MAJOR CONTOURS
	EXISTING MINOR CONTOURS
	EXISTING PIPELINE
	EXISTING OVERHEAD LINE
	EXISTING TREE
	EXISTING FENCE
	WETLAND FLAG NO.
	SAMPLE STATION
	SOW FLAG NO.
	STATE OPEN WATER FLAG
	PHOTO LOCATION (SEE REPORT)

**NOTES FOR WETLAND RESTORATION:**

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**THOMAS D. STRONG**  
PROFESSIONAL LAND SURVEYOR  
N.J. LIC. NO. 24GS03676100

SIGNATURE DATE 08/01/2019

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**MICHAEL J. DENICHILO**  
PROFESSIONAL ENGINEER  
N.J. LIC. NO. 24GE05078700

SIGNATURE DATE 08/01/2019

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REFERENCE DRAWINGS	
DWG. NO.	TITLE
000-03-07-011	* HDD EXHIBIT PLAN AND PROFILE

REVISIONS				
NO.	REVISIONS	DATE	DRAWN	CK
0	ISSUED FOR NJDEP PERMIT	7/2019	RJP	KEK

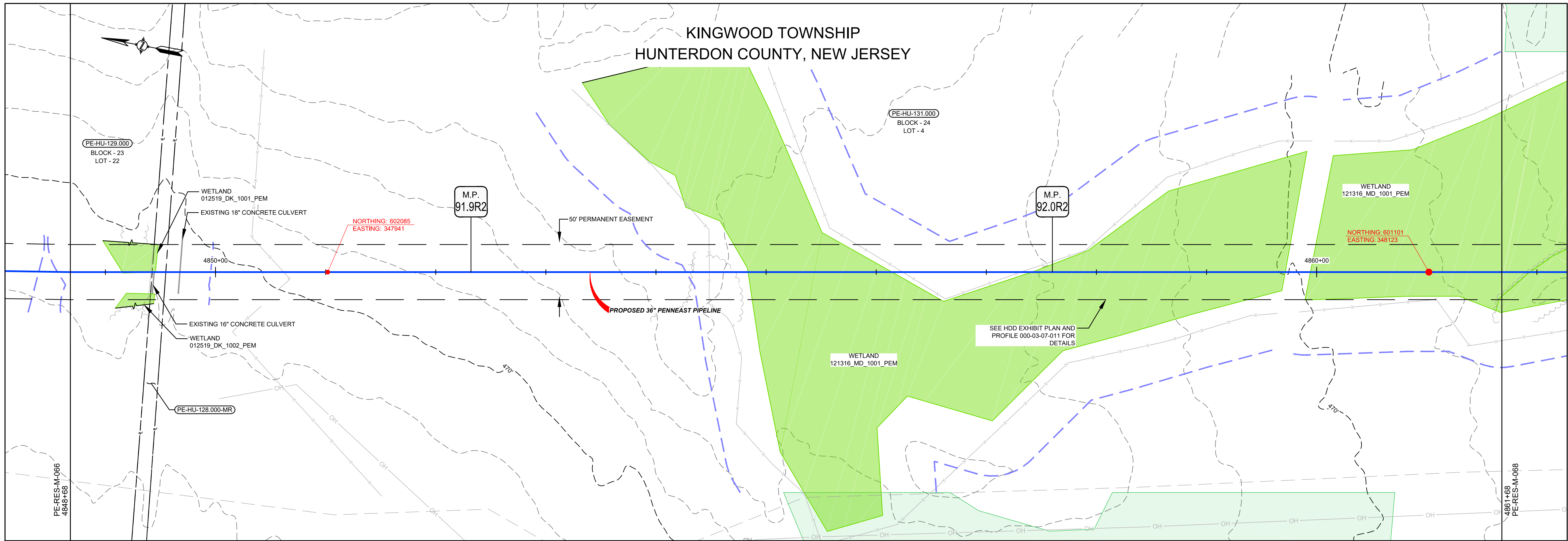
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DRAWN BY	DATE
RJP	7/2019
CHECKED BY	DATE
KEK	7/2019
ENG. APPROVAL	DATE
MJD	7/2019
P.M. APPROVAL	DATE
MW	7/2019

CLIENT APPROVAL	
DATE	
7/2019	

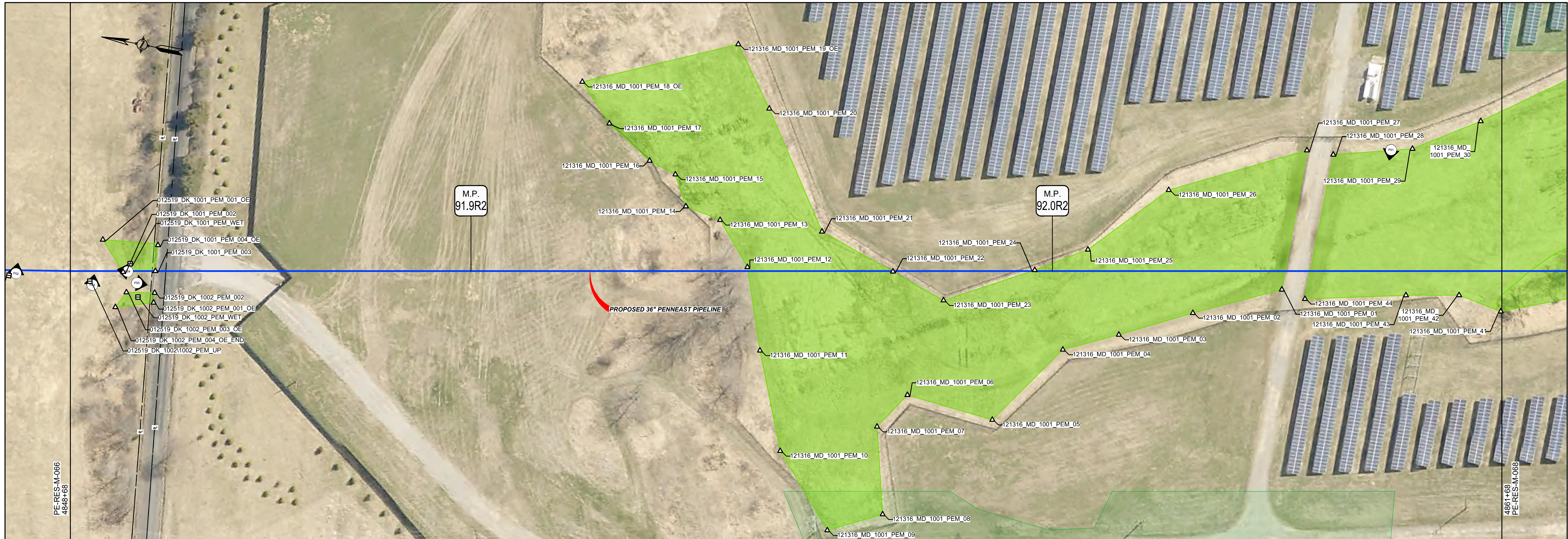
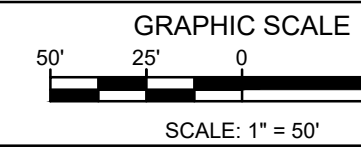
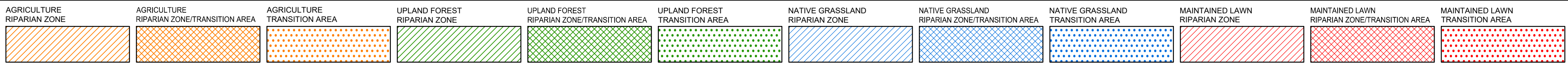
PREPARED FOR	
PREPARED BY	
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830	
CERTIFICATE NO. 24GA28016800	

PENNEAST PIPELINE PROJECT		
PENNEAST PIPELINE RESTORATION PERMIT PLAN MP 91.6R2 - MP 91.8R2		
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-066	0





**RIPARIAN ZONE/TRANSITION AREA RESTORATION CATEGORIES**



- NOTES:**
- UNLESS THESE DRAWINGS ARE SPECIFICALLY DESIGNATED AS "CONSTRUCTION ISSUE", THESE DRAWINGS SHALL NOT BE USED FOR CONSTRUCTION OR IMPROVEMENTS DEPICTED HEREIN. CONTRACTORS SHALL NOTIFY THE DESIGN ENGINEER TO OBTAIN CONSTRUCTION DOCUMENTS.
  - THESE PLANS ARE FOR PERMITTING PURPOSES ONLY. THESE PLANS SHALL NOT BE USED FOR CONSTRUCTION.
  - WETLAND AND WATERBODY DELINEATION SURVEYS COMPLETED BY AMY S. GREENE ENVIRONMENTAL CONSULTANTS.
  - PHOTO LOCATIONS PROVIDED BY AMY S. GREENE ENVIRONMENTAL CONSULTANTS.
  - RIPARIAN ZONES AND WETLAND TRANSITION AREAS PROVIDED BY PAULUS, SOKOLOWSKI AND SARTOR (PS&S).
  - CIVIL SURVEY CONDUCTED AND DRAWINGS PREPARED BY MOTT MACDONALD.
  - RESTORATION METHODS AND HATCHING SHOWN ON PLANS PROVIDED BY AMY S. GREENE ENVIRONMENTAL CONSULTANTS.

REFERENCE DRAWINGS		REVISIONS				APPROVALS			
DWG. NO.	TITLE	NO.	REVISIONS	DATE	DRAWN	CK	APPR	DRAWN BY	DATE
000-03-07-011	* HDD EXHIBIT PLAN AND PROFILE	0	ISSUED FOR NJDEP PERMIT	7/2019	RJP	KEK	MJD	RJP	7/2019
								KEK	7/2019
								MJD	7/2019
								MW	7/2019

PREPARED FOR		PREPARED BY	
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830		CERTIFICATE NO. 24GA28016800	

LEGEND	
	PROPOSED PIPELINE
	LIMITS OF DISTURBANCE
	PROPOSED PERMANENT EASEMENT
	OPERATIONAL CORRIDOR
	PROPOSED TREE LINE (DURING CONSTRUCTION AND BEFORE RESTORATION)
	EXISTING TREE LINE
	WETLAND (SURVEYED)
	WETLAND (PUBLIC)
	PEM WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
	PSS WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
	PFO WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
	MODAG WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
	WATERBODY (SURVEYED)
	WATERBODY (PUBLIC)
	WATERBODY - TO BE RESTORED
	TRANSITION AREA
	RIPARIAN BUFFER (OUTER LIMITS ONLY)
	STREAM CENTERLINE (SURVEYED)
	STREAM CENTERLINE (PUBLIC)
	LIMITS OF WETLAND DELINEATION
	PROPERTY LINE
	PARCEL ID WITH BLOCK - 1 LOT - 10.00
	EXISTING CULVERT
	CORRUGATED PLASTIC PIPE
	CORRUGATED METAL PIPE
	HIGH DENSITY POLYETHYLENE PIPE
	POLYVINYL CHLORIDE PIPE
	REINFORCED CONCRETE PIPE
	UNKNOWN
	EXISTING FOREIGN UTILITY EASEMENT
	EXISTING MAJOR CONTOURS
	EXISTING MINOR CONTOURS
	EXISTING PIPELINE
	EXISTING OVERHEAD LINE
	EXISTING TREE
	EXISTING FENCE
	WETLAND FLAG NO.
	SAMPLE STATION
	SOW FLAG NO.
	STATE OPEN WATER FLAG
	PHOTO LOCATION (SEE REPORT)

**NOTES FOR WETLAND RESTORATION:**

PEM WETLANDS IMPACTED WILL BE RESTORED AS PEM WETLANDS\*

PSS WETLANDS WITHIN THE LIMITS OF DISTURBANCE AND OUTSIDE THE OPERATIONAL CORRIDOR WILL BE RESTORED AS PSS WETLANDS. PSS WETLANDS WITHIN THE OPERATIONAL CORRIDOR WILL BE RESTORED AS PEM WETLANDS.

PFO WETLANDS WITHIN THE LIMITS OF DISTURBANCE AND OUTSIDE THE OPERATIONAL CORRIDOR WILL BE RESTORED AS PFO WETLANDS. PFO WETLANDS WITHIN THE OPERATIONAL CORRIDOR WILL BE RESTORED AS PEM WETLANDS.

MODAG WETLANDS IMPACTED WILL BE RESTORED AS MODAG WETLANDS.

I AM A DULY REGISTERED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I HEREBY CERTIFY THAT EXISTING CONDITIONS SHOWN WERE FIELD LOCATED AND PREPARED UNDER MY DIRECT SUPERVISION.

**THOMAS D. STRONG**  
PROFESSIONAL LAND SURVEYOR  
N.J. LIC. NO. 24GS03676100

08/01/2019  
SIGNATURE DATE

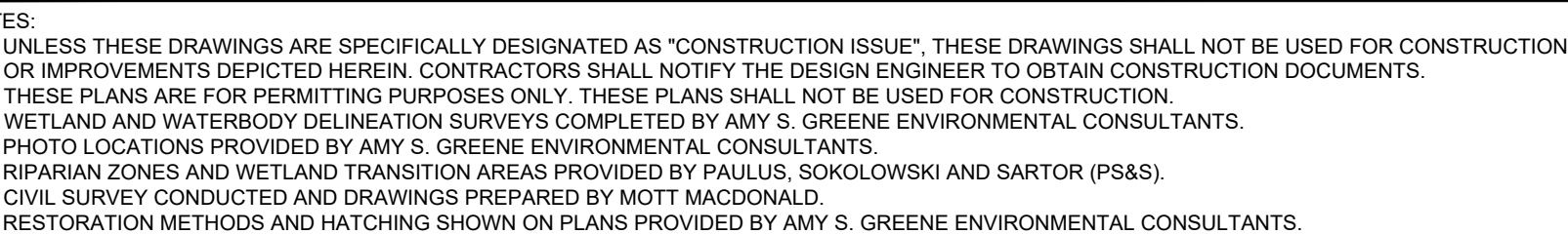
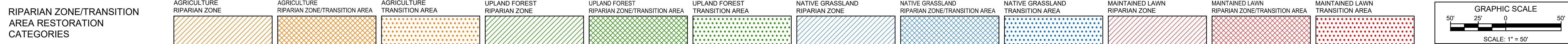
I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I HEREBY CERTIFY THAT THE PROPOSED ENVIRONMENTAL DISTURBANCES SHOWN ARE ACCURATE AND CORRESPOND WITH THE DETAILED ENGINEERING DRAWINGS.

**MICHAEL J. DENICHILO**  
PROFESSIONAL ENGINEER  
N.J. LIC. NO. 24GE05078700

08/01/2019  
SIGNATURE DATE


PENNEAST PIPELINE PROJECT		
<b>PENNEAST PIPELINE RESTORATION PERMIT PLAN</b>		
<b>MP 91.8R2 - MP 92.1R2</b>		
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-067	0













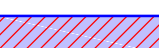


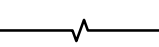
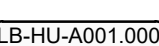
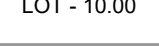



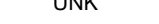




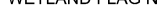

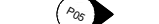

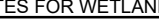

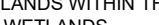
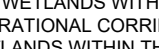





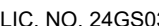




APPROVALS	
DRAWN BY	DATE
RJP	7/2/2019
CHECKED BY	DATE
KEK	7/2/2019
ENG. APPROVAL	DATE
MJD	7/2/2019
P.M. APPROVAL	DATE
MW	7/2/2019

CLIENT APPROVAL
DATE
7/2019

<p>PREPARED FOR</p> <div data-bbox="2426 1851 2514 1876">  <p>PennEast PIPELINE</p> </div>					
<p>PREPARED BY</p>	<p><b>M</b></p>		<p><b>M</b></p>		
	<p><b>MOTT MACDONALD</b></p>				
	<p>111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830</p>				
	<p>CERTIFICATE NO. 24GA28016600</p>				

PENNEAST PIPELINE PROJECT		
<p align="center"><b>PENNEAST PIPELINE RESTORATION PERMIT PLAN MP 92.1R2 - MP 92.3R2</b></p>		
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-068	0

## LEGEND

	PROPOSED PIPELINE
	LIMITS OF DISTURBANCE
	PROPOSED PERMANENT EASEMENT
	OPERATIONAL CORRIDOR
	PROPOSED TREE LINE (DURING CONSTRUCTION AND BEFORE RESTORATION)
	EXISTING TREE LINE
	WETLAND (SURVEYED)
	WETLAND (PUBLIC)
	PEM WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
	PSS WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
	PHO WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
	MDAG WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
	WATERBODY (SURVEYED)
	WATERBODY (PUBLIC)
	WATERBODY - TO BE RESTORED
	TRANSITION AREA
	RIPARIAN BUFFER (OUTER LIMITS ONLY)
	STREAM CENTERLINE (SURVEYED)
	STREAM CENTERLINE (PUBLIC)
	LIMITS OF WETLAND DELINEATION
	PROPERTY LINE
	PARCEL ID WITH BLOCK AND LOT NUMBER
	EXISTING CULVERT
	CORRUGATED PLASTIC PIPE
	CORRUGATED METAL PIPE
	HIGH DENSITY POLYETHYLENE PIPE
	POLYVINYL CHLORIDE PIPE
	REINFORCED CONCRETE PIPE
	UNKNOWN
	EXISTING FOREIGN UTILITY EASEMENT
	EXISTING MAJOR CONTOURS
	EXISTING MINOR CONTOURS
	EXISTING PIPELINE
	EXISTING OVERHEAD LINE
	EXISTING TREE
	EXISTING FENCE
	WETLAND FLAG
	SAMPLE STATION
	STATE OPEN WATER FLAG
	PHOTO LOCATION (SEE REPORT)

NOTES FOR WETLAND RESTORATION:

PEM WETLANDS IMPACTED WILL BE RESTORED AS PEM WETLANDS\*

PSS WETLANDS WITHIN THE LIMITS OF DISTURBANCE AND OUTSIDE THE OPERATIONAL CORRIDOR WILL BE RESTORED AS PSS WETLANDS. PSS WETLANDS WITHIN THE OPERATIONAL CORRIDOR WILL BE RESTORED AS PEM WETLANDS.

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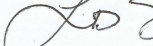
MODAG WETLANDS IMPACTED WILL BE RESTORED AS MODAG WETLANDS.

I AM A DULY REGISTERED PROFESSIONAL LAND SURVEYOR  
UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I  
HEREBY CERTIFY THAT EXISTING CONDITIONS SHOWN  
WERE FIELD LOCATED AND PREPARED UNDER MY DIRECT  
SUPERVISION,

**THOMAS D. STRONG**

**PROFESSIONAL LAND SURVEYOR**

N.J. LIC. NO. 24GSG03676100



**08/01/2019**

SIGNATURE	DATE
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I AM A DULY REGISTERED PROFESSIONAL ENGINEER  
UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I  
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**MICHAEL J. DENICHILO**  
**PROFESSIONAL ENGINEER**

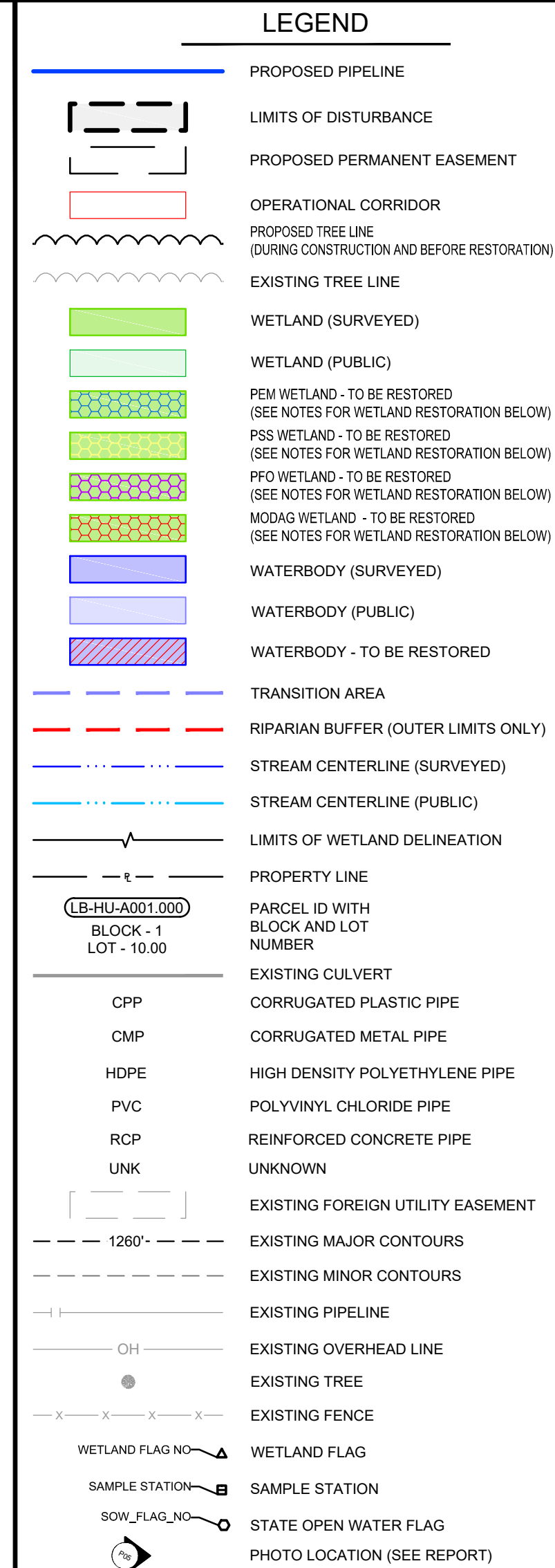
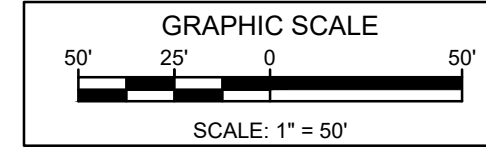
N.J. LIC. NO. 24GE05078700

*Michael J. Denichilo*

08/01/2019

SIGNATURE DATE





NOTES FOR WETLAND RESTORATION:

PEM WETLANDS IMPACTED WILL BE RESTORED AS PEM WETLANDS\*

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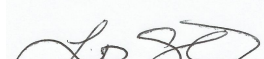
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**THOMAS D. STRONG**

**PROFESSIONAL LAND SURVEYOR**

N.J. LIC. NO. 24G503676100



**08/01/2019**

SIGNATURE	DATE
-----------	------

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**MICHAEL J. DENICHILO**  
**PROFESSIONAL ENGINEER**

N.J. LIC. NO. 24GE0507800

*Michael J. Denichilo*

SIGNATURE DATE


NOTES:

1. UNLESS THESE DRAWINGS ARE SPECIFICALLY DESIGNATED AS "CONSTRUCTION ISSUE", THESE DRAWINGS SHALL NOT BE USED FOR CONSTRUCTION OR IMPROVEMENTS DEPICTED HEREIN. CONTRACTORS SHALL NOTIFY THE DESIGN ENGINEER TO OBTAIN CONSTRUCTION DOCUMENTS.
2. THESE PLANS ARE FOR PERMITTING PURPOSES ONLY. THESE PLANS SHALL NOT BE USED FOR CONSTRUCTION.
3. WETLAND AND WATERBODY DELINEATION SURVEYS COMPLETED BY AMY S. GREENE ENVIRONMENTAL CONSULTANTS.
4. PHOTO LOCATIONS PROVIDED BY AMY S. GREENE ENVIRONMENTAL CONSULTANTS.
5. UPLAND ZONES AND WETLAND TRANSITION AREAS PROVIDED BY FALLOUS, SOKOLOWSKI AND SARTOR (PS&S).
6. CIVIL SURVEY CONDUCTED AND DRAWINGS PREPARED BY MOTT MACDONALD.
7. RESTORATION METHODS AND HATCHING SHOWN ON PLANS PROVIDED BY AMY S. GREENE ENVIRONMENTAL CONSULTANTS.

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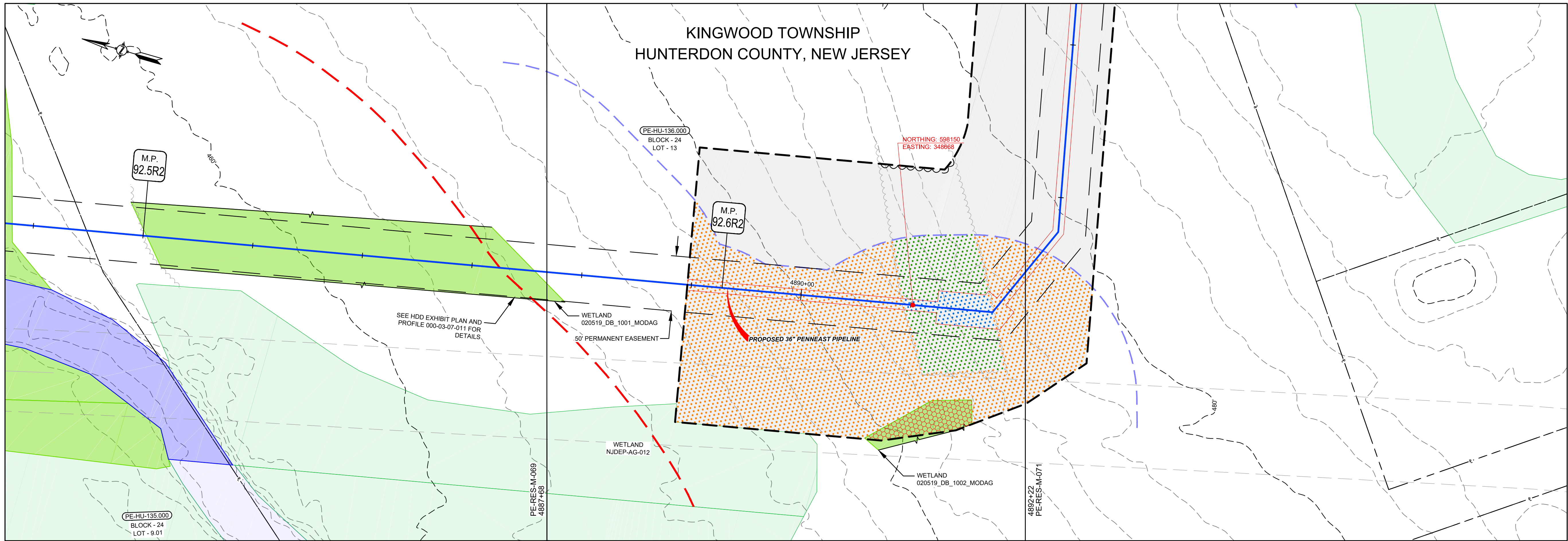
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DRAWN BY	DATE
RJP	7/2019
CHECKED BY	DATE
KEK	7/2019
ENG. APPROVAL	DATE
MJD	7/2019
P.M. APPROVAL	DATE
MW	7/2019

[illegible]

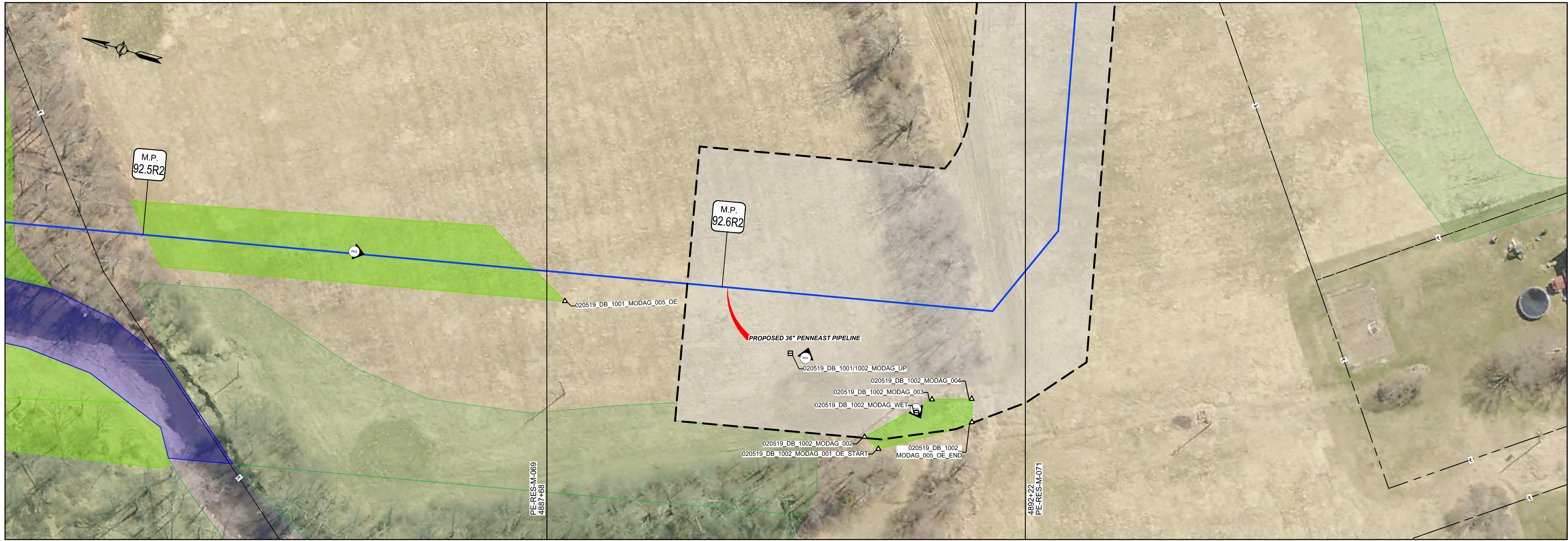
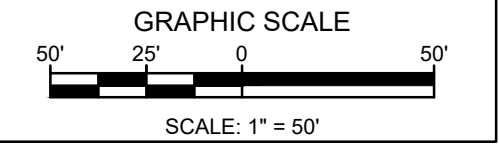
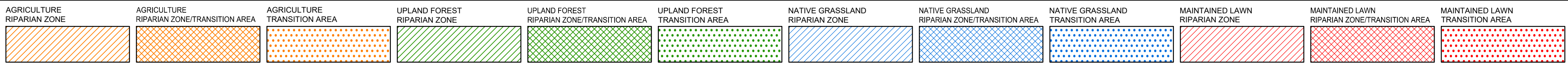
	<p>PREPARED FOR</p> 
	<p>PREPARED BY <b>M M</b></p> <p><b>MOTT MACDONALD</b></p> <p>111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830</p> <p>CERTIFICATE NO. 24GA28016600</p>

PENNEAST PIPELINE PROJECT		
<p align="center"><b>PENNEAST PIPELINE RESTORATION PERMIT PLAN MP 92.3R2 - MP 92.6R2</b></p>		
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-069	0





**RIPARIAN ZONE/TRANSITION AREA RESTORATION CATEGORIES**



- NOTES:
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REFERENCE DRAWINGS	
DWG. NO.	TITLE
000-03-07-011	* HDD EXHIBIT PLAN AND PROFILE

REVISIONS	
NO.	REVISIONS
0	ISSUED FOR NJDEP PERMIT

APPROVALS	
DRAWN BY	DATE
RJP	7/2019
CHECKED BY	DATE
KEK	7/2019
ENG. APPROVAL	DATE
MJD	7/2019
P.M. APPROVAL	DATE
MW	7/2019

CLIENT APPROVAL	
DATE	
7/2019	

PREPARED FOR

**PennEast**  
PIPELINE

PREPARED BY

**M**  
**MOTT MACDONALD**

111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830  
CERTIFICATE NO. 24GA28016800

**LEGEND**

- PROPOSED PIPELINE
- LIMITS OF DISTURBANCE
- PROPOSED PERMANENT EASEMENT
- OPERATIONAL CORRIDOR
- PROPOSED TREE LINE (DURING CONSTRUCTION AND BEFORE RESTORATION)
- EXISTING TREE LINE
- WETLAND (SURVEYED)
- WETLAND (PUBLIC)
- PEM WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- PSS WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- PFO WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- MODAG WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- WATERBODY (SURVEYED)
- WATERBODY (PUBLIC)
- WATERBODY - TO BE RESTORED
- TRANSITION AREA
- RIPARIAN BUFFER (OUTER LIMITS ONLY)
- STREAM CENTERLINE (SURVEYED)
- STREAM CENTERLINE (PUBLIC)
- LIMITS OF WETLAND DELINEATION
- PROPERTY LINE
- PARCEL ID WITH BLOCK - 1 LOT - 10.00
- EXISTING CULVERT
- CORRUGATED PLASTIC PIPE
- CMP
- CORRUGATED METAL PIPE
- HDPE
- HIGH DENSITY POLYETHYLENE PIPE
- PVC
- POLYVINYL CHLORIDE PIPE
- RCP
- REINFORCED CONCRETE PIPE
- UNK
- UNKNOWN
- EXISTING FOREIGN UTILITY EASEMENT
- 1260'
- EXISTING MAJOR CONTOURS
- EXISTING MINOR CONTOURS
- EXISTING PIPELINE
- OH
- EXISTING OVERHEAD LINE
- EXISTING TREE
- EXISTING FENCE
- WETLAND FLAG NO.
- WETLAND FLAG
- SAMPLE STATION
- SAMPLE STATION
- SOW FLAG NO.
- STATE OPEN WATER FLAG
- PHOTO LOCATION (SEE REPORT)

**NOTES FOR WETLAND RESTORATION:**

PEM WETLANDS IMPACTED WILL BE RESTORED AS PEM WETLANDS\*

PSS WETLANDS WITHIN THE LIMITS OF DISTURBANCE AND OUTSIDE THE OPERATIONAL CORRIDOR WILL BE RESTORED AS PSS WETLANDS. PSS WETLANDS WITHIN THE OPERATIONAL CORRIDOR WILL BE RESTORED AS PEM WETLANDS.

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MODAG WETLANDS IMPACTED WILL BE RESTORED AS MODAG WETLANDS.

I AM A DULY REGISTERED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I HEREBY CERTIFY THAT EXISTING CONDITIONS SHOWN WERE FIELD LOCATED AND PREPARED UNDER MY DIRECT SUPERVISION.

**THOMAS D. STRONG**  
PROFESSIONAL LAND SURVEYOR  
N.J. LIC. NO. 24GS03676100

*Thomas D. Strong* 08/01/2019  
SIGNATURE DATE

I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I HEREBY CERTIFY THAT THE PROPOSED ENVIRONMENTAL DISTURBANCES SHOWN ARE ACCURATE AND CORRESPOND WITH THE DETAILED ENGINEERING DRAWINGS.

**MICHAEL J. DENICHILO**  
PROFESSIONAL ENGINEER  
N.J. LIC. NO. 24GE05078700

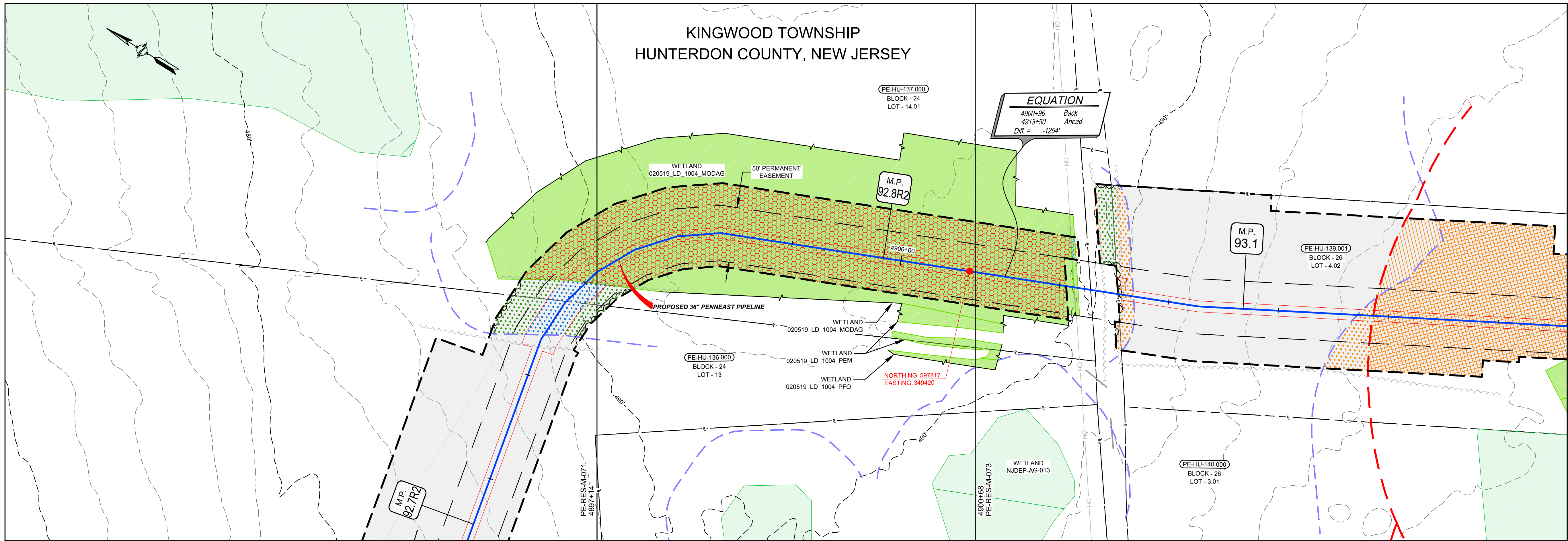
*Michael J. Denichilo* 08/01/2019  
SIGNATURE DATE

PENNEAST PIPELINE PROJECT		
PENNEAST PIPELINE RESTORATION PERMIT PLAN MP 92.6R2 - MP 92.7R2		
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-070	0

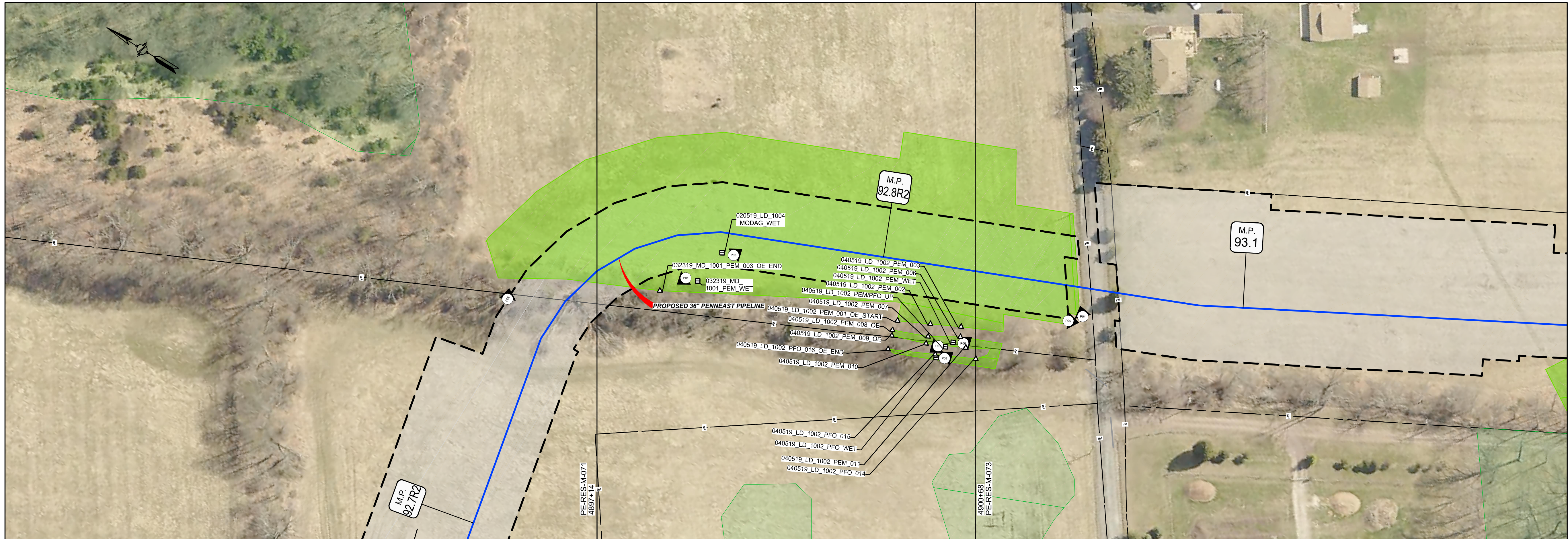
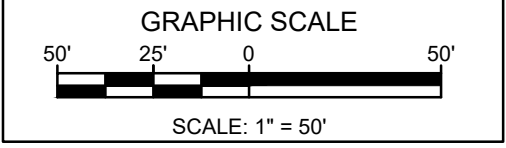
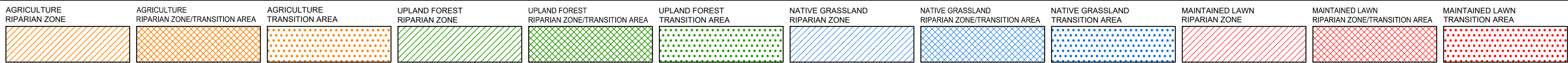


PENNEAST PIPELINE PROJECT		
<p align="center"><b>PENNEAST PIPELINE RESTORATION PERMIT PLAN MP 92.7R2 - MP 92.7R2</b></p>		
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-071	0





RIPIARIAN ZONE/TRANSITION  
AREA RESTORATION  
CATEGORIES



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  - PHOTO LOCATIONS PROVIDED BY AMY S. GREENE ENVIRONMENTAL CONSULTANTS.
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  - RESTORATION METHODS AND HATCHING SHOWN ON PLANS PROVIDED BY AMY S. GREENE ENVIRONMENTAL CONSULTANTS.

REFERENCE DRAWINGS	
DWG. NO.	TITLE

REVISIONS	
NO.	REVISIONS
0	ISSUED FOR NJDEP PERMIT

APPROVALS	
DRAWN BY	DATE
RJP	7/2019
CHECKED BY	DATE
KEK	7/2019
ENG. APPROVAL	DATE
MJD	7/2019
P.M. APPROVAL	DATE
MW	7/2019

APPROVALS	
DRAWN BY	DATE
RJP	7/2019
CHECKED BY	DATE
KEK	7/2019
ENG. APPROVAL	DATE
MJD	7/2019
P.M. APPROVAL	DATE
MW	7/2019

PREPARED FOR	
PREPARED BY	
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830 CERTIFICATE NO. 24GA28016800	

PENNEAST PIPELINE PROJECT		
PENNEAST PIPELINE RESTORATION PERMIT PLAN MP 92.7R2 - MP 92.8R2		
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-072	0

**LEGEND**

- PROPOSED PIPELINE
- LIMITS OF DISTURBANCE
- PROPOSED PERMANENT EASEMENT
- OPERATIONAL CORRIDOR
- PROPOSED TREE LINE (DURING CONSTRUCTION AND BEFORE RESTORATION)
- EXISTING TREE LINE
- WETLAND (SURVEYED)
- WETLAND (PUBLIC)
- PEM WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- PSS WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- PFO WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- MODAG WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- WATERBODY (SURVEYED)
- WATERBODY (PUBLIC)
- WATERBODY - TO BE RESTORED
- TRANSITION AREA
- RIPIARIAN BUFFER (OUTER LIMITS ONLY)
- STREAM CENTERLINE (SURVEYED)
- STREAM CENTERLINE (PUBLIC)
- LIMITS OF WETLAND DELINEATION
- PROPERTY LINE
- PARCEL ID WITH BLOCK AND LOT NUMBER
- EXISTING CULVERT
- CORRUGATED PLASTIC PIPE
- CORRUGATED METAL PIPE
- HDPE
- HIGH DENSITY POLYETHYLENE PIPE
- PVC
- POLYVINYL CHLORIDE PIPE
- RCP
- REINFORCED CONCRETE PIPE
- UNK
- UNKNOWN
- EXISTING FOREIGN UTILITY EASEMENT
- 1260'
- EXISTING MAJOR CONTOURS
- EXISTING MINOR CONTOURS
- EXISTING PIPELINE
- OH
- EXISTING OVERHEAD LINE
- EXISTING TREE
- EXISTING FENCE
- WETLAND FLAG NO.
- WETLAND FLAG
- SAMPLE STATION
- SAMPLE STATION
- SOW\_FLAG\_NO.
- STATE OPEN WATER FLAG
- PHOTO LOCATION (SEE REPORT)

**NOTES FOR WETLAND RESTORATION:**

PEM WETLANDS IMPACTED WILL BE RESTORED AS PEM WETLANDS\*

PSS WETLANDS WITHIN THE LIMITS OF DISTURBANCE AND OUTSIDE THE OPERATIONAL CORRIDOR WILL BE RESTORED AS PSS WETLANDS. PSS WETLANDS WITHIN THE OPERATIONAL CORRIDOR WILL BE RESTORED AS PEM WETLANDS.

PFO WETLANDS WITHIN THE LIMITS OF DISTURBANCE AND OUTSIDE THE OPERATIONAL CORRIDOR WILL BE RESTORED AS PFO WETLANDS. PFO WETLANDS WITHIN THE OPERATIONAL CORRIDOR WILL BE RESTORED AS PEM WETLANDS.

MODAG WETLANDS IMPACTED WILL BE RESTORED AS MODAG WETLANDS.

I AM A DULY REGISTERED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I HEREBY CERTIFY THAT EXISTING CONDITIONS SHOWN WERE FIELD LOCATED AND PREPARED UNDER MY DIRECT SUPERVISION.

**THOMAS D. STRONG**  
PROFESSIONAL LAND SURVEYOR  
N.J. LIC. NO. 24GS03676100

08/01/2019  
SIGNATURE DATE

I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I HEREBY CERTIFY THAT THE PROPOSED ENVIRONMENTAL DISTURBANCES SHOWN ARE ACCURATE AND CORRESPOND WITH THE DETAILED ENGINEERING DRAWINGS.

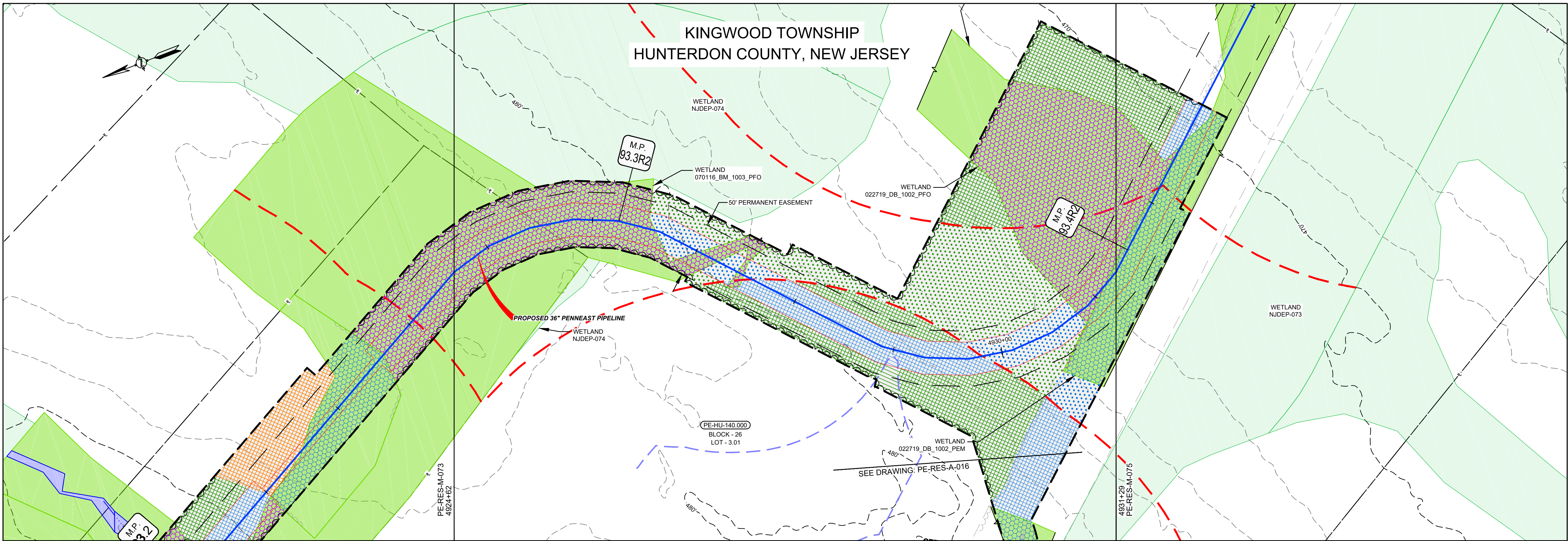
**MICHAEL J. DENICHILO**  
PROFESSIONAL ENGINEER  
N.J. LIC. NO. 24GE05078700

08/01/2019  
SIGNATURE DATE

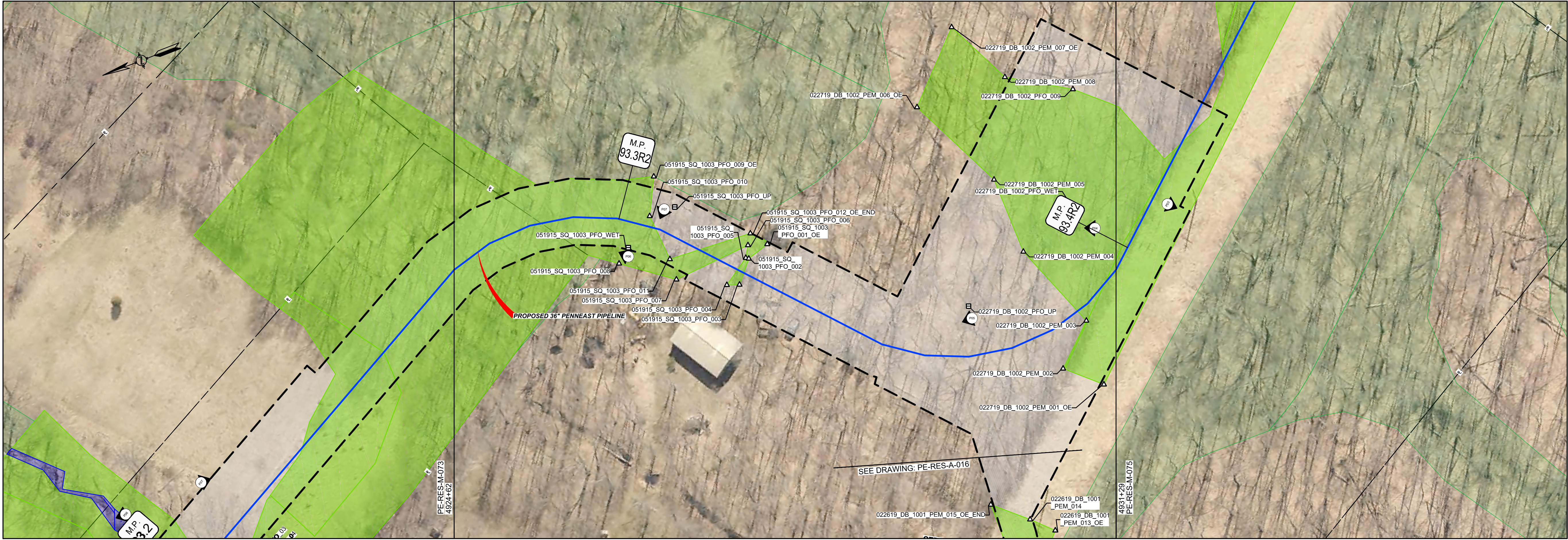
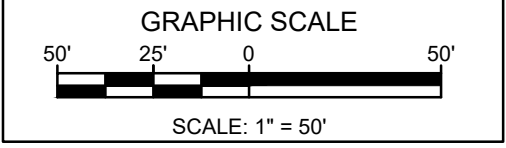
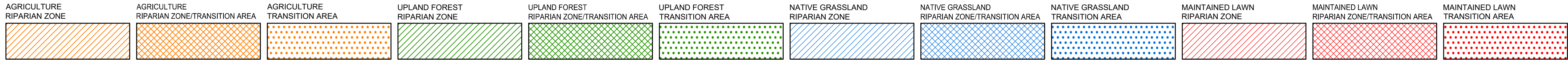


PENNEAST PIPELINE PROJECT		
PENNEAST PIPELINE RESTORATION PERMIT PLAN MP 92.8R2 - MP 93.3R2		
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-073	0





RIPIARIAN ZONE/TRANSITION  
AREA RESTORATION  
CATEGORIES



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REFERENCE DRAWINGS	
DWG. NO.	TITLE
000-03-03-069.1	* ACCESS ROAD DETAIL

REVISIONS	
NO.	REVISIONS
0	ISSUED FOR NJDEP PERMIT

APPROVALS	
DRAWN BY	DATE
RJP	7/2019
CHECKED BY	DATE
KEK	7/2019
ENG. APPROVAL	DATE
MJD	7/2019
P.M. APPROVAL	DATE
MW	7/2019

APPROVALS	
DRAWN BY	DATE
RJP	7/2019
CHECKED BY	DATE
KEK	7/2019
ENG. APPROVAL	DATE
MJD	7/2019
P.M. APPROVAL	DATE
MW	7/2019

PREPARED FOR	
PREPARED BY	
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830 CERTIFICATE NO. 24GA28016800	

**LEGEND**

PROPOSED PIPELINE

LIMITS OF DISTURBANCE

PROPOSED PERMANENT EASEMENT

OPERATIONAL CORRIDOR

PROPOSED TREE LINE (DURING CONSTRUCTION AND BEFORE RESTORATION)

EXISTING TREE LINE

WETLAND (SURVEYED)

WETLAND (PUBLIC)

PEM WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)

PSS WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)

PFO WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)

MODAG WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)

WATERBODY (SURVEYED)

WATERBODY (PUBLIC)

WATERBODY - TO BE RESTORED

TRANSITION AREA

RIPIARIAN BUFFER (OUTER LIMITS ONLY)

STREAM CENTERLINE (SURVEYED)

STREAM CENTERLINE (PUBLIC)

LIMITS OF WETLAND DELINEATION

PROPERTY LINE

PARCEL ID WITH BLOCK - 1 LOT - 10.00

EXISTING CULVERT

CORRUGATED PLASTIC PIPE

CMP

CORRUGATED METAL PIPE

HDPE

HIGH DENSITY POLYETHYLENE PIPE

PVC

POLYVINYL CHLORIDE PIPE

RCP

REINFORCED CONCRETE PIPE

UNK

UNKNOWN

EXISTING FOREIGN UTILITY EASEMENT

1260'

EXISTING MAJOR CONTOURS

EXISTING MINOR CONTOURS

EXISTING PIPELINE

OH

EXISTING OVERHEAD LINE

EXISTING TREE

EXISTING FENCE

WETLAND FLAG NO.

WETLAND FLAG

SAMPLE STATION

SAMPLE STATION

SOW\_FLAG\_NO.

STATE OPEN WATER FLAG

PHOTO LOCATION (SEE REPORT)

**NOTES FOR WETLAND RESTORATION:**

PEM WETLANDS IMPACTED WILL BE RESTORED AS PEM WETLANDS\*

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**THOMAS D. STRONG**  
PROFESSIONAL LAND SURVEYOR  
N.J. LIC. NO. 24GS03676100

08/01/2019  
SIGNATURE DATE

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**MICHAEL J. DENICHILO**  
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N.J. LIC. NO. 24GE05078700

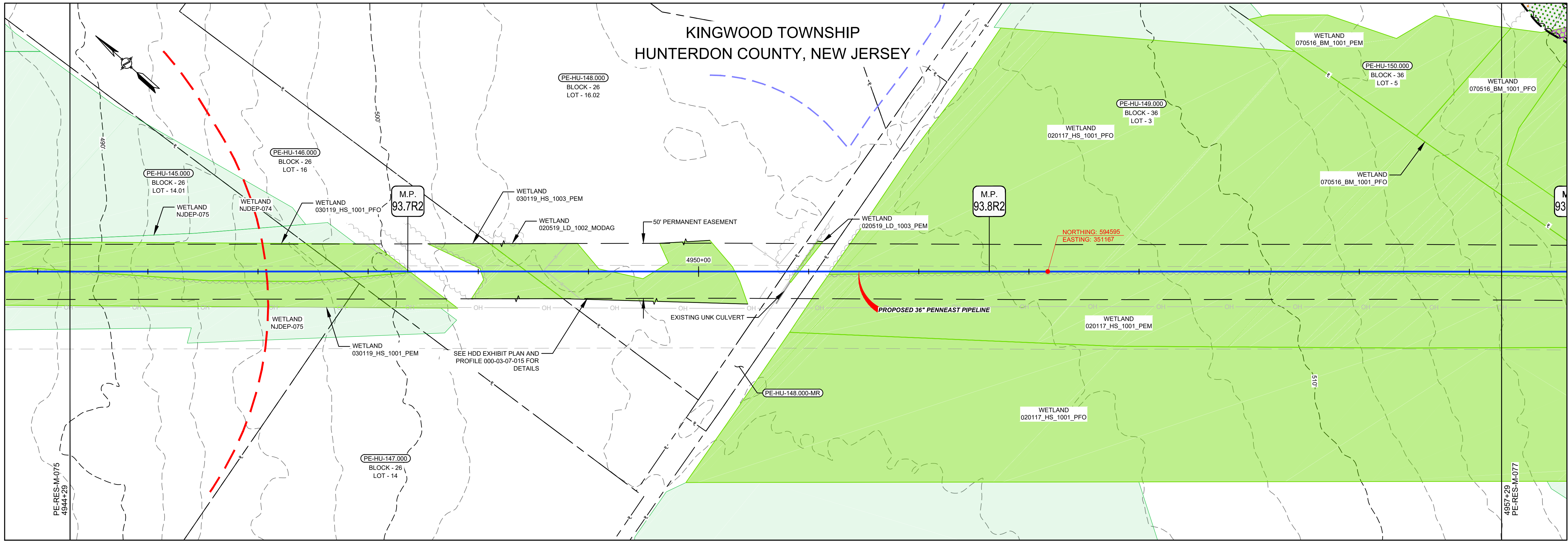
08/01/2019  
SIGNATURE DATE

PENNEAST PIPELINE PROJECT		
<b>PENNEAST PIPELINE RESTORATION PERMIT PLAN MP 93.3R2 - MP 93.4R2</b>		
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-074	0

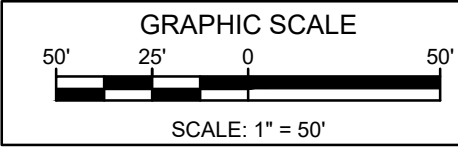
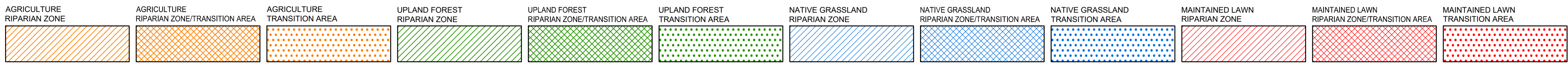


PENNEAST PIPELINE PROJECT		
<p align="center"><b>PENNEAST PIPELINE RESTORATION PERMIT PLAN MP 93.4R2 - MP 93.6R2</b></p>		
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-075	0





**RIPARIAN ZONE/TRANSITION AREA RESTORATION CATEGORIES**



**LEGEND**

- PROPOSED PIPELINE
- LIMITS OF DISTURBANCE
- PROPOSED PERMANENT EASEMENT
- OPERATIONAL CORRIDOR
- PROPOSED TREE LINE (DURING CONSTRUCTION AND BEFORE RESTORATION)
- EXISTING TREE LINE
- WETLAND (SURVEYED)
- WETLAND (PUBLIC)
- PEM WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- PSS WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- PFO WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- MODAG WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- WATERBODY (SURVEYED)
- WATERBODY (PUBLIC)
- WATERBODY - TO BE RESTORED
- TRANSITION AREA
- RIPARIAN BUFFER (OUTER LIMITS ONLY)
- STREAM CENTERLINE (SURVEYED)
- STREAM CENTERLINE (PUBLIC)
- LIMITS OF WETLAND DELINEATION
- PROPERTY LINE
- PARCEL ID WITH BLOCK AND LOT NUMBER (B-HU-A001.000 BLOCK - 1 LOT - 10.00)
- EXISTING CULVERT
- CPP CORRUGATED PLASTIC PIPE
- CMP CORRUGATED METAL PIPE
- HDPE HIGH DENSITY POLYETHYLENE PIPE
- PVC POLYVINYL CHLORIDE PIPE
- RCP REINFORCED CONCRETE PIPE
- UNK UNKNOWN
- EXISTING FOREIGN UTILITY EASEMENT
- EXISTING MAJOR CONTOURS
- EXISTING MINOR CONTOURS
- EXISTING PIPELINE
- EXISTING OVERHEAD LINE
- EXISTING TREE
- EXISTING FENCE
- WETLAND FLAG NO. WETLAND FLAG
- SAMPLE STATION SAMPLE STATION
- SOW\_FLAG\_NO STATE OPEN WATER FLAG
- PHOTO LOCATION (SEE REPORT)

**NOTES FOR WETLAND RESTORATION:**

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**THOMAS D. STRONG**  
PROFESSIONAL LAND SURVEYOR  
N.J. LIC. NO. 24GS03676100

SIGNATURE: *Thomas D. Strong* DATE: 08/01/2019

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**MICHAEL J. DENICHILO**  
PROFESSIONAL ENGINEER  
N.J. LIC. NO. 24GE05078700

SIGNATURE: *Michael J. Denichilo* DATE: 08/01/2019

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REFERENCE DRAWINGS		REVISIONS	
DWG. NO.	TITLE	NO.	REVISIONS
000-03-07-015	* HDD EXHIBIT PLAN AND PROFILE	0	ISSUED FOR NJDEP PERMIT

APPROVALS			
DRAWN BY	DATE	CK	APPR
RJP	7/2019	KEK	MJD
CLIENT APPROVAL			

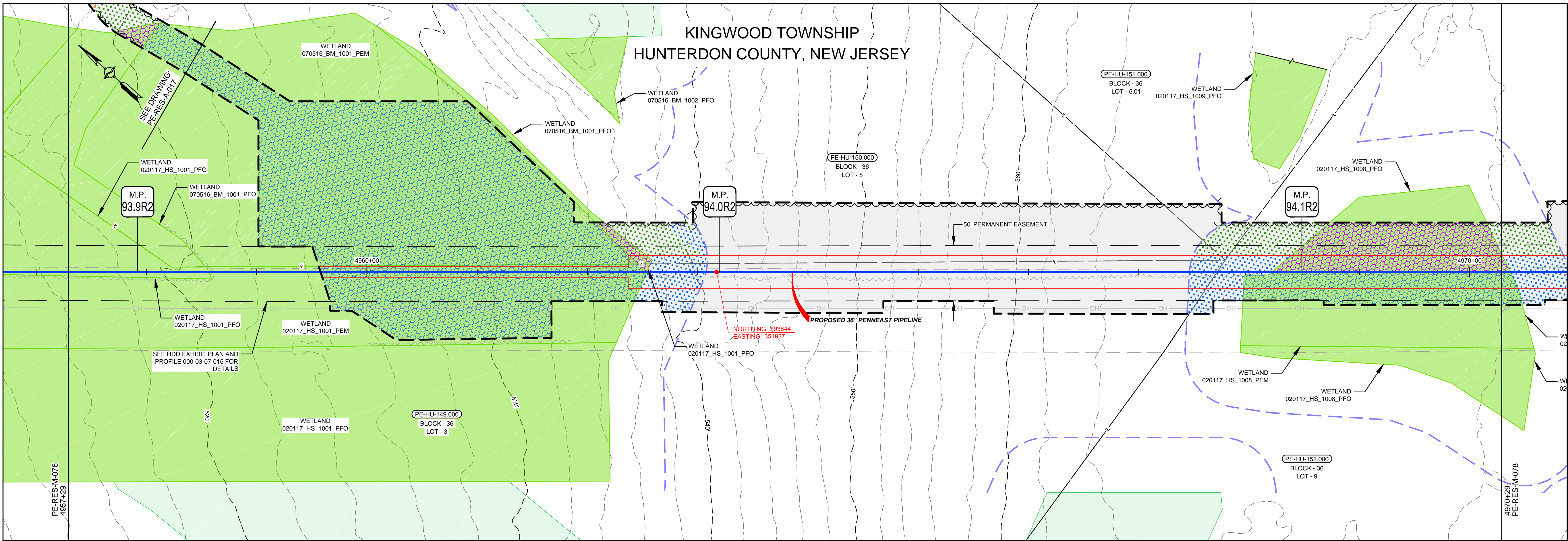
APPROVALS	
DRAWN BY	DATE
RJP	7/2019
CHECKED BY	DATE
KEK	7/2019
ENG. APPROVAL	DATE
MJD	7/2019
P.M. APPROVAL	DATE
MW	7/2019

PREPARED FOR  
**PennEast PIPELINE**

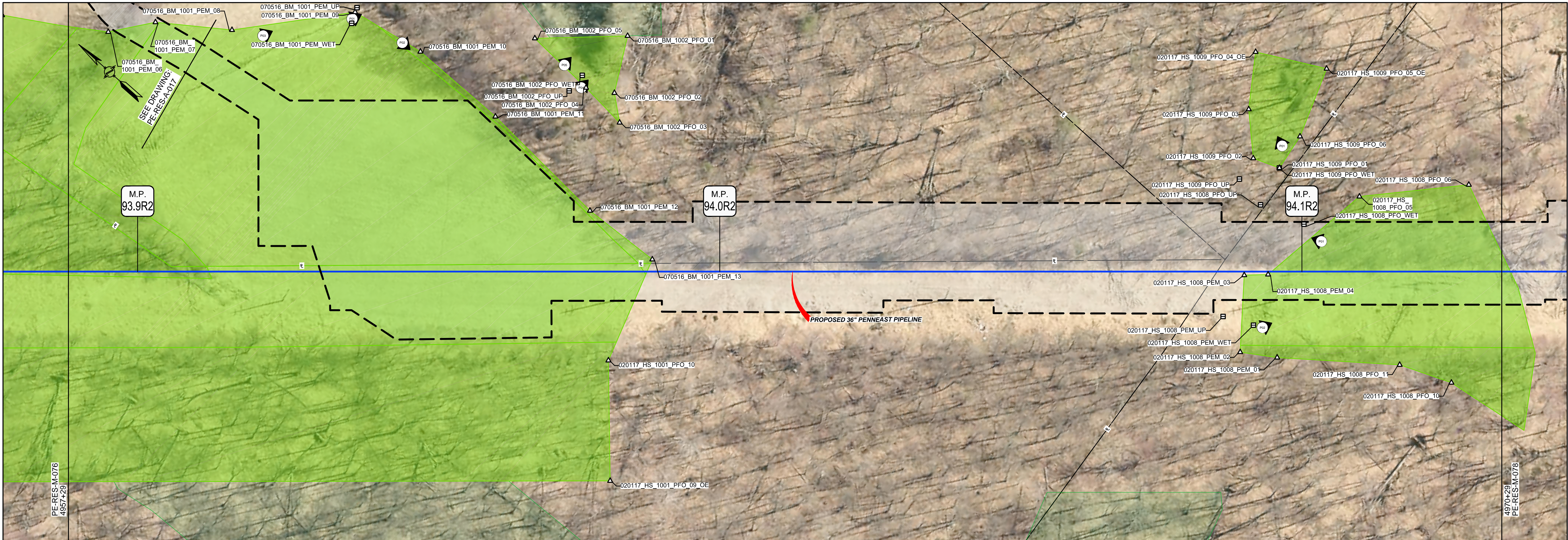
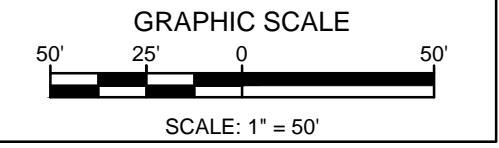
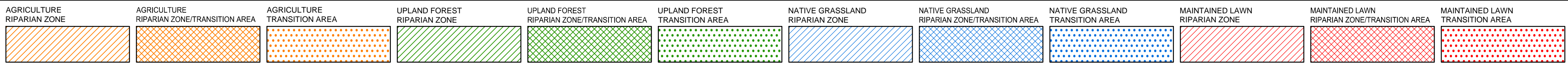
PREPARED BY  
**M M MOTT MACDONALD**  
111 WOOD AVENUE SOUTH, ISELIN, NJ 08830  
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT		
PENNEAST PIPELINE RESTORATION PERMIT PLAN MP 93.6R2 - MP 93.9R2		
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-076	0





**RIPARIAN ZONE/TRANSITION AREA RESTORATION CATEGORIES**



**LEGEND**

PROPOSED PIPELINE  
LIMITS OF DISTURBANCE  
PROPOSED PERMANENT EASEMENT  
OPERATIONAL CORRIDOR  
PROPOSED TREE LINE (DURING CONSTRUCTION AND BEFORE RESTORATION)  
EXISTING TREE LINE  
WETLAND (SURVEYED)  
WETLAND (PUBLIC)  
PEM WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)  
PSS WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)  
PFO WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)  
MODAG WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)  
WATERBODY (SURVEYED)  
WATERBODY (PUBLIC)  
WATERBODY - TO BE RESTORED  
TRANSITION AREA  
RIPARIAN BUFFER (OUTER LIMITS ONLY)  
STREAM CENTERLINE (SURVEYED)  
STREAM CENTERLINE (PUBLIC)  
LIMITS OF WETLAND DELINEATION  
PROPERTY LINE  
PARCEL ID WITH BLOCK AND LOT NUMBER  
EXISTING CULVERT  
CORRUGATED PLASTIC PIPE  
CORRUGATED METAL PIPE  
HDPE  
PVC  
RCP  
UNK  
EXISTING FOREIGN UTILITY EASEMENT  
EXISTING MAJOR CONTOURS  
EXISTING MINOR CONTOURS  
EXISTING PIPELINE  
EXISTING OVERHEAD LINE  
EXISTING TREE  
EXISTING FENCE  
WETLAND FLAG NO.  
SAMPLE STATION  
SOW\_FLAG\_NO.  
STATE OPEN WATER FLAG  
PHOTO LOCATION (SEE REPORT)

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**THOMAS D. STRONG**  
PROFESSIONAL LAND SURVEYOR  
N.J. LIC. NO. 24GS03676100

SIGNATURE: *Thomas D. Strong* DATE: 08/01/2019

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**MICHAEL J. DENICHILO**  
PROFESSIONAL ENGINEER  
N.J. LIC. NO. 24GE05078700

SIGNATURE: *Michael J. Denichilo* DATE: 08/01/2019

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REFERENCE DRAWINGS		NO.		REVISIONS			
DWG. NO.	TITLE			REVISIONS	DATE	DRAWN	CK
000-03-07-015	* HDD EXHIBIT PLAN AND PROFILE	0		ISSUED FOR NJDEP PERMIT	7/2019	RJP	KEK
000-03-03-069.2	* ACCESS ROAD DETAIL						

APPROVALS		DATE	
DRAWN BY	RJP	DATE	7/2019
CHECKED BY	KEK	DATE	7/2019
ENG. APPROVAL	MJD	DATE	7/2019
P.M. APPROVAL	MW	DATE	7/2019

CLIENT APPROVAL	DATE

PREPARED FOR: **PennEast PIPELINE**

PREPARED BY: **MOTT MACDONALD**

111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830  
CERTIFICATE NO. 24GA28016800

PENNEAST PIPELINE PROJECT		
PENNEAST PIPELINE RESTORATION PERMIT PLAN MP 93.9R2 - MP 94.1R2		
SCALE: 1" = 50'	DRAWING NO.: PE-RES-M-077	REVISION: 0



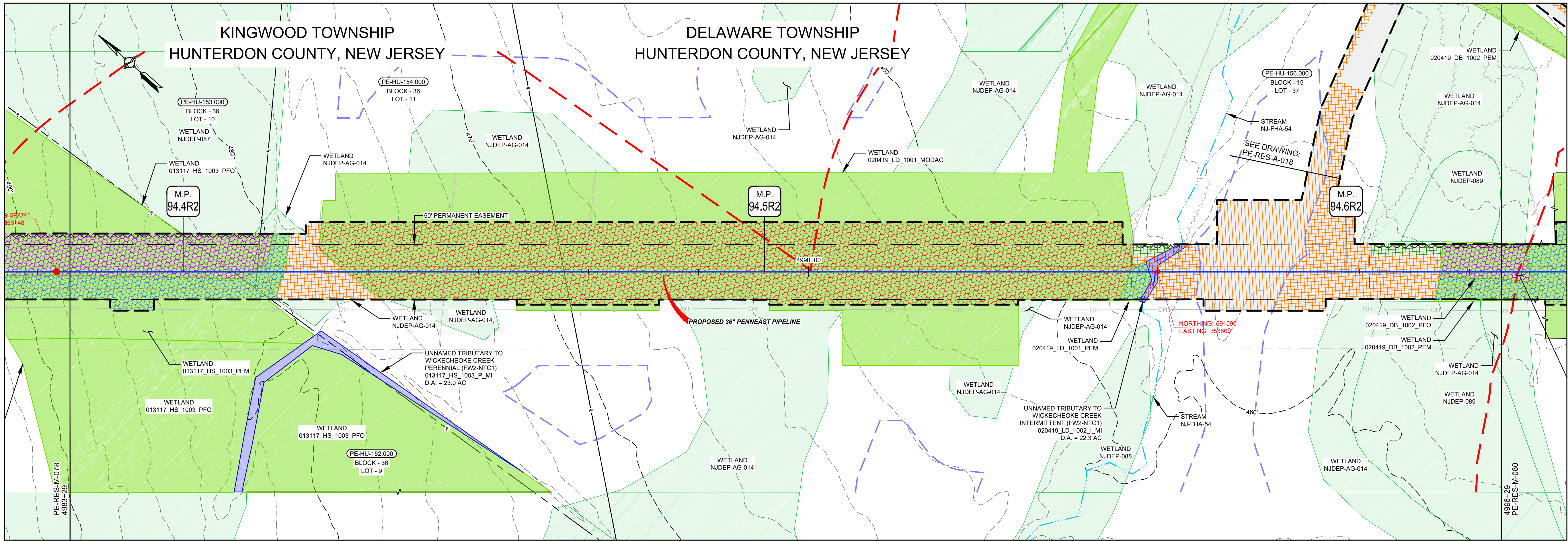
**PENNEAST PIPELINE PROJECT**

**PENNEAST PIPELINE  
RESTORATION PERMIT PLAN**

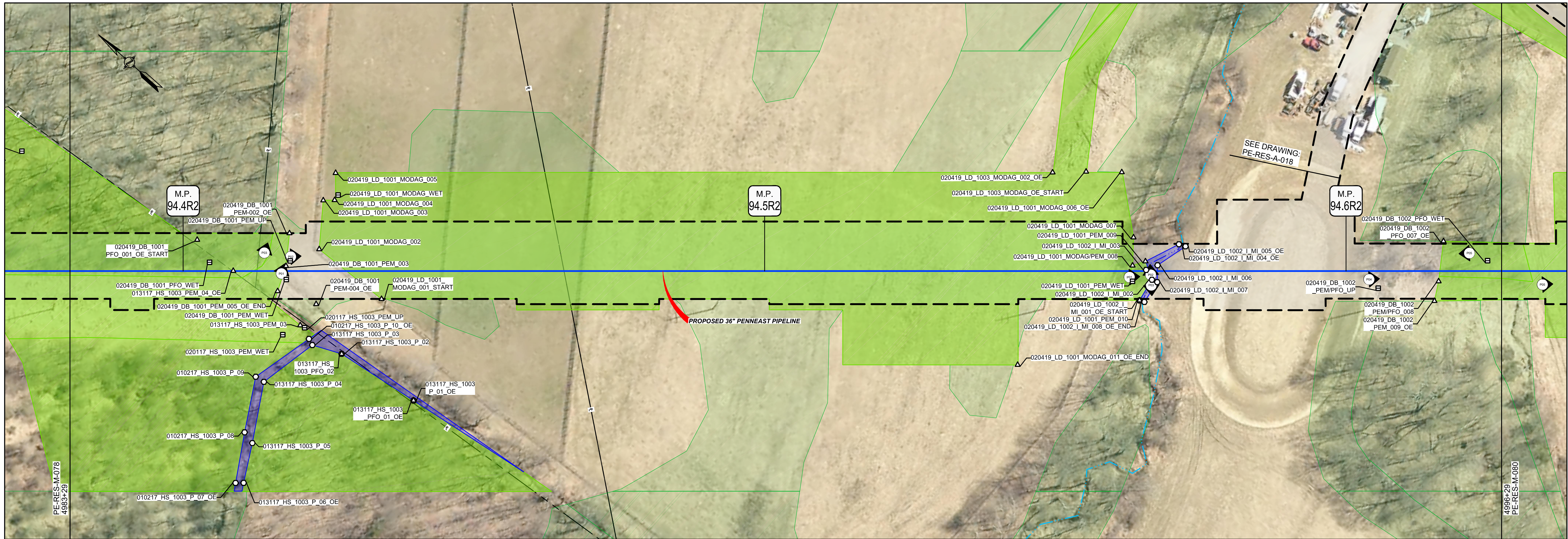
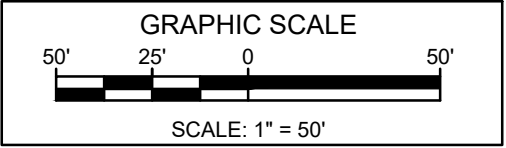
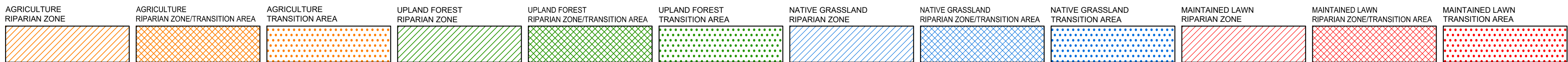
**MP 94.1R2 - MP 94.4R2**

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-078	0





**RIPARIAN ZONE/TRANSITION AREA RESTORATION CATEGORIES**



**LEGEND**

- PROPOSED PIPELINE
- LIMITS OF DISTURBANCE
- PROPOSED PERMANENT EASEMENT
- OPERATIONAL CORRIDOR
- PROPOSED TREE LINE (DURING CONSTRUCTION AND BEFORE RESTORATION)
- EXISTING TREE LINE
- WETLAND (SURVEYED)
- WETLAND (PUBLIC)
- PEM WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- PSS WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- PFO WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- MODAG WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- WATERBODY (SURVEYED)
- WATERBODY (PUBLIC)
- WATERBODY - TO BE RESTORED
- TRANSITION AREA
- RIPARIAN BUFFER (OUTER LIMITS ONLY)
- STREAM CENTERLINE (SURVEYED)
- STREAM CENTERLINE (PUBLIC)
- LIMITS OF WETLAND DELINEATION
- PROPERTY LINE
- PARCEL ID WITH BLOCK AND LOT NUMBER
- EXISTING CULTIV
- CPP CORRUGATED PLASTIC PIPE
- CMP CORRUGATED METAL PIPE
- HDPE HIGH DENSITY POLYETHYLENE PIPE
- PVC POLYVINYL CHLORIDE PIPE
- RCP REINFORCED CONCRETE PIPE
- UNK UNKNOWN
- EXISTING FOREIGN UTILITY EASEMENT
- EXISTING MAJOR CONTOURS
- EXISTING MINOR CONTOURS
- EXISTING PIPELINE
- EXISTING OVERHEAD LINE
- EXISTING TREE
- EXISTING FENCE
- WETLAND FLAG NO. WETLAND FLAG
- SAMPLE STATION SAMPLE STATION
- SOW\_FLAG\_NO. STATE OPEN WATER FLAG PHOTO LOCATION (SEE REPORT)

**NOTES FOR WETLAND RESTORATION:**

PEM WETLANDS IMPACTED WILL BE RESTORED AS PEM WETLANDS\*

PSS WETLANDS WITHIN THE LIMITS OF DISTURBANCE AND OUTSIDE THE OPERATIONAL CORRIDOR WILL BE RESTORED AS PSS WETLANDS. PSS WETLANDS WITHIN THE OPERATIONAL CORRIDOR WILL BE RESTORED AS PEM WETLANDS.

PFO WETLANDS WITHIN THE LIMITS OF DISTURBANCE AND OUTSIDE THE OPERATIONAL CORRIDOR WILL BE RESTORED AS PFO WETLANDS. PFO WETLANDS WITHIN THE OPERATIONAL CORRIDOR WILL BE RESTORED AS PEM WETLANDS.

MODAG WETLANDS IMPACTED WILL BE RESTORED AS MODAG WETLANDS.

I AM A DULY REGISTERED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I HEREBY CERTIFY THAT EXISTING CONDITIONS SHOWN WERE FIELD LOCATED AND PREPARED UNDER MY DIRECT SUPERVISION.

**THOMAS D. STRONG**  
PROFESSIONAL LAND SURVEYOR  
N.J. LIC. NO. 24GS03676100

SIGNATURE: *Thomas D. Strong* DATE: 08/01/2019

I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I HEREBY CERTIFY THAT THE PROPOSED ENVIRONMENTAL DISTURBANCES SHOWN ARE ACCURATE AND CORRESPOND WITH THE DETAILED ENGINEERING DRAWINGS.

**MICHAEL J. DENICHILO**  
PROFESSIONAL ENGINEER  
N.J. LIC. NO. 24GE05078700

SIGNATURE: *Michael J. Denichilo* DATE: 08/01/2019

- NOTES:**
- UNLESS THESE DRAWINGS ARE SPECIFICALLY DESIGNATED AS "CONSTRUCTION ISSUE", THESE DRAWINGS SHALL NOT BE USED FOR CONSTRUCTION OR IMPROVEMENTS DEPICTED HEREIN. CONTRACTORS SHALL NOTIFY THE DESIGN ENGINEER TO OBTAIN CONSTRUCTION DOCUMENTS.
  - THESE PLANS ARE FOR PERMITTING PURPOSES ONLY. THESE PLANS SHALL NOT BE USED FOR CONSTRUCTION.
  - WETLAND AND WATERBODY DELINEATION SURVEYS COMPLETED BY AMY S. GREENE ENVIRONMENTAL CONSULTANTS.
  - PHOTO LOCATIONS PROVIDED BY AMY S. GREENE ENVIRONMENTAL CONSULTANTS.
  - RIPARIAN ZONES AND WETLAND TRANSITION AREAS PROVIDED BY PAULUS, SOKOLOWSKI AND SARTOR (PS&S).
  - CIVIL SURVEY CONDUCTED AND DRAWINGS PREPARED BY MOTT MACDONALD.
  - RESTORATION METHODS AND HATCHING SHOWN ON PLANS PROVIDED BY AMY S. GREENE ENVIRONMENTAL CONSULTANTS.

REFERENCE DRAWINGS		NO.	
DWG. NO.	TITLE	NO.	
000-03-03-069.4	* ACCESS ROAD DETAIL	0	ISSUED FOR NJDEP PERMIT

REVISIONS				
NO.	REVISIONS	DATE	DRAWN	CK
0	ISSUED FOR NJDEP PERMIT	7/2019	RJP	KEK

APPROVALS	
DRAWN BY	DATE
RJP	7/2019
CHECKED BY	DATE
KEK	7/2019
ENG. APPROVAL	DATE
MJD	7/2019
P.M. APPROVAL	DATE
MW	7/2019

CLIENT APPROVAL	
DATE	

PREPARED FOR: **PennEast PIPELINE**

PREPARED BY: **MOTT MACDONALD**  
111 WOOD AVENUE SOUTH, ISELIN, NJ 08830  
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT		
PENNEAST PIPELINE RESTORATION PERMIT PLAN MP 94.4R2 - MP 94.6R2		
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-079	0



PENNEAST PIPELINE PROJECT		
<p style="text-align: center;">PENNEAST PIPELINE RESTORATION PERMIT PLAN MP 94.6R2 - MP 94.9R2</p>		
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-080	0